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HISTORY OF THE SIGNAL SECURITY AGENCY  
VOLUME ONE  
ORGANIZATION  
PART I  
1939 - 1945

*Duped from Hank's copy*

*to be the*

*Classified*

*copy for AHA*

*Give to Bill when  
SRH is released*

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ARMY SECURITY AGENCY

WASHINGTON, D. C.

HISTORY OF THE SIGNAL SECURITY AGENCY

VOLUME ONE

ORGANIZATION

Part I

1939 - 1945

Prepared under the Direction of the

CHIEF, ARMY SECURITY AGENCY

CSGAS-13

13 April 1948

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## HISTORICAL NOTE

Volume One (Organization) of the History of the Signal Security Agency relates the story of the development of the Agency in World War II (1939 - 1945). In order that the reader might have a better understanding of the period under discussion, however, it was decided at the time this volume was planned to introduce the main body of the text with an introductory chapter on the origin of the Signal Intelligence Service and its development prior to World War II. Chapter I therefore begins with the year 1917.

Because of its bulk, volume One is issued in two parts. Part I includes chapters I to V. The first of these five chapters, the purpose of which is to give a brief account of the background and origin of the Signal Intelligence Service, is introductory in nature. The other four chapters in Part I deal with the expansion of the Signal Intelligence Service in the period between the outbreak of the War in Europe in 1939 to the end of 1942.

The use of letters in connection with page numbers after page 150 was made necessary by the addition of new material to the chapter on Arlington Hall Station after the main body of the text had been typed in final form. Part II of volume One begins with page 151.

HISTORIAN, AS-13

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~~TOP SECRET~~VOLUME ONE - PART I  
(Chapters I - V)

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## THE HISTORY OF THE SIGNAL SECURITY AGENCY

VOLUME ONE: ORGANIZATION

## CHAPTER I. THE ORIGINS OF THE SIGNAL SECURITY AGENCY

A. From the Origins to 1917

Strictly speaking, the Signal Security Agency existed only between 1 July 1943 and 15 September 1945, but it was not created ab initio in 1943 nor did it cease to exist in 1945. The organization known in those two years as the Signal Security Agency had really been established in 1930 as the Signal Intelligence Service. This name continued until 1942, in which year a series of reorganizations effected by the Chief Signal Officer resulted in as many different names. The Signal Intelligence Service became successively the Signal Intelligence Division, the Signal Security Branch, and the Signal Security Service, before the name Signal Security Agency was adopted. Finally, in September 1945 the name was once more changed, this time to Army Security Agency, but none of these changes affected the basic directive under which the Agency operated, though the last change was simultaneous with a transfer of the Agency to another place in the chain of command with consequent broadening of power. Essentially, therefore, the present History is the story of a single organization operating throughout World War II, though under different names.

Originally, plans were made to begin the narrative with the earliest known use of cryptography by the United States Army but it was soon seen that the bulk of the record even for the War years was tremendous, and it was decided to segregate the earlier information from that pertaining

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strictly to the War itself. Therefore, a three-volume work entitled The Historical Backgrounds of the Signal Security Agency has been prepared: to this work the reader is referred for a full account of all cryptographic activity within the Army prior to the year 1939. It will be necessary, however, to outline briefly the steps leading to the establishment of the Signal Intelligence Service in 1930, and its subsequent history to 1939, so that the reader may clearly understand the events which took place during the War.

In the Civil War the United States Army for the first time employed codes and ciphers on an extensive basis. Both the Signal Corps, newly founded by Major Albert James Myer, afterwards first Chief Signal Officer, and the Military Telegraph Corps, organized by Anson Stager and Thomas T. Eckert to exploit for the benefit of the Federal Government the existing facilities of the commercial telegraph companies, used cryptographic techniques for the protection of their messages. The Signal Corps assumed responsibility for messages transmitted by visual signals and by such telegraph lines as it was able to erect during combat operations; the Military Telegraph Corps confined its activity to such circuits as used fixed telegraph stations belonging to the commercial companies.

The cryptographic systems of the Signal Corps were varied but for the most part did not rise above the elementary form of monoalphabetic substitution produced by a cipher disk. The Military Telegraph

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Corps employed a route transposition of plain-text words mixed with a few code words. The Confederates, on the other hand, possessed an intrinsically better system, a polyalphabetic cipher using a Vigenere square, but they handled it so clumsily that when Confederate messages were intercepted by the Federals, solution was frequently reached. The Confederates themselves were unable to solve any intercepted Federal messages.

Following the War, the Military Telegraph Corps was disbanded but the Signal Corps continued to exist. Through the personal efforts of the Chief Signal Officer, particularly during the incumbency of Brigadier General A. W. Greeley (1887-1906), a number of codes were compiled for War Department use. The only code compiled between 1865 and 1917 by agencies outside the Signal Corps was the so-called "Cipher of the War Department," issued by the Adjutant General's Office in 1902. While these codes were by no means secure when judged by modern standards, they were probably adequate for their own day. The final code in this series was the War Department Telegraph Code 1915 which was in current use just before and during World War I. It must be admitted, however, that though military cryptography and cryptanalysis had been taught for a few years in the Army Service Schools, the Army embarked on World War I unprepared either in cryptography or cryptanalysis for the tasks facing it.

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As previous compilations had been accomplished under the personal direction of the Chief Signal Officer, there was in existence no unit regularly charged with code compilation. Nor was there any crypt-analytic unit established or even projected. The Military Intelligence Section of the General Staff, which then as always had a strong interest in cryptographic activity, took the lead in meeting the demands of the emergency and thus emerged a division of responsibility which was to continue until 1930. The Signal Corps ceased to compile codes in Washington, though, as will be seen a little later, it did so in France.

For some months the War Department relied on the volunteer assistance of Colonel George Fabyan, a patriotic citizen who operated a research agency known as Riverbank Laboratories, at Geneva, Illinois. Colonel<sup>1</sup> Fabyan there maintained, among other activities, a department which had for some years been working on a cryptographic approach to the Shakespeare-Bacon problem, and the workers in that department as early as 1916 turned their attention to military cryptography. Soon they found themselves in a position to aid the Government for at that time none of the Departments had people trained in cryptanalysis. They aided the War Department not only by solving such cryptographed messages as were submitted to them, but also they conducted a vigorous training program for what would now be called Message Center Officers

1. An honorary title conferred by the Governor of Kentucky (or Illinois).

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and Signal Intelligence Officers. In the fall of 1917, however, the Military Intelligence Section, General Staff, through its Chief, Colonel Ralph H. Van Deman, organized the Cipher Bureau in Washington. The first director of this Bureau was First Lieutenant (afterwards Major) Herbert O. Yardley, who for some years had been a code clerk in the employ of the State Department.

The Cipher Bureau, known colloquially as MI-8, grew to a maximum strength of 161 persons, of whom 18 were officers, the remainder being civilians. MI-8 was divided into five subsections:

1. Code Compilation.--This unit, under the direction of Captain A. E. Prince, attempted to remedy the inadequacy of the War Department Telegraph Code 1915 by compiling secure cipher tables for use with it. It also compiled two Military Intelligence codes (Nos. 5 and 9), a code for military attaches (the so-called "Ideal Correspondence Code"), two codes for transmitting French place names, and a casualty code.
2. Communications.--This unit, under the direction of Captain James E. McKenna, was responsible for the encoding and decoding of all Military Intelligence messages.
3. Secret Ink.--Two secret ink laboratories were established, one (directed by Captain E. K. Carver) was in New York; the other (directed by First Lieutenant A. J. McGrail) was in Washington. Both examined large quantities of documents suspected of containing secret ink messages and both were successful in developing a considerable number of such messages.
4. Shorthand.--A unit was organized in New York for the processing of shorthand documents. This was directed by a civilian, Mr. F. W. Allen, who served without pay and for a time paid the expenses of his office.
5. Solution.--This unit, probably the largest of the subsections of MI-8, successfully solved a large volume of diplomatic traffic, chiefly German, Mexican, Spanish, and Latin-American.

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Mearshile, in France, there were established three organizations which performed functions roughly analogous to those of the Signal Security Agency. These were:

1. The Code Compilation Section, Signal Corps.--This unit, of which Captain Howard R. Barnes was Officer in Charge, compiled a number of small codes for use in combat operations, one large staff code, and a casualty code, in addition to some other codes of minor importance. The codes were printed at The Adjutant General's Printing Press and were at first distributed through The Adjutant General's Department, but the task of distribution was afterwards assumed by the General Staff.
2. The Radio Intelligence Section, General Staff.--This unit, of which Lieutenant Colonel Frank Moorman was Officer in Charge, was successful in attempts to solve German codes and ciphers used in combat operations. It also made use of the services provided by the Radio Intelligence Section, Signal Corps.
3. The Radio Intelligence Section, Signal Corps.--This unit functioned chiefly by providing intercept and goniometric services for the use of the Radio Intelligence Section, General Staff.

As it will be readily seen from the foregoing account, World War I was marked, so far as cryptological activity is concerned, by a division of responsibility. Some of the necessary functions were performed by the Military Intelligence Division, others by the Signal Corps, and still others by The Adjutant General's Department. That this diversity of responsibility was a mistake was not immediately realized--during a relatively short war the disadvantages of the arrangement had hardly had time to make themselves apparent--and, unfortunately, no attempt was made to unify responsibility.

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C. The Decade 1919-1929

Indeed, the division of responsibility was not only allowed to continue but in 1921 it was officially established as policy. (During the War it had merely grown up as a response to an emergency.) The Military Intelligence Division had been that Army organization which had come nearest to performing all of the cryptological operations, but it was now to give up compilation entirely to the Signal Corps, and printing, storage and issue to The Adjutant General's Department, retaining for itself only solution. Indeed, the establishment of the policy in 1921 was largely a formulation in writing of the status quo.

After demobilization of the three units in France, plans were laid for the continuation of MI-8 on a civilian basis in peace time. Yardley, by now a civilian with a commission in the Military Intelligence Reserve, was continued as Director, and the unit, greatly diminished in size, was moved to New York, where for the next ten years it enjoyed a clandestine and almost wholly unsupervised existence. Its support was derived from funds supplied jointly by the War and State Departments. The budget for the first year was placed at \$100,000 of which the War Department's share was \$60,000. Only about \$50,000 of this was spent, however, and each successive year the budget declined until for the Fiscal Year 1929 Yardley was expected to maintain his staff for less than \$22,000. With this money, he conducted cryptanalytic studies in the diplomatic traffic sent out by a number of foreign governments of which Japan and Mexico were the most important.

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I. The Origins of the Signal Security Agency

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The chief difficulty which he faced was the problem of obtaining adequate intercepts for his purposes. During the War and for a few years thereafter, the commercial cable companies by secret arrangement had supplied copies of traffic needed, but the illegal nature of this procedure tended to make the companies more and more reluctant to cooperate. Their business also was to some extent reduced by the competition they faced from radio companies. No adequate substitute for this source of material was ever successfully established, though attempts were made from time to time.

A second disadvantage of the arrangement was to be found in the location of the unit in New York, where adequate supervision by War Department officials became increasingly difficult. The Director of the unit spent more and more time in private business enterprises, engaged in no training program, conducted no work in the field of secret inks, and even did less and less work in cryptanalysis. As a result it became desirable that some sort of reorganization take place. This matter became acute when, in 1929, a change in administration in the State Department forced the abandonment of the State Department's share in the project. A decision was reached to amalgamate MI-8 with the Code and Cipher Section of the Office of the Chief Signal Officer, which had existed since 1921, and which was directed by the Signal Corps cryptanalyst, Mr. William F. Friedman.

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Following a period in 1919 and 1920 when such compilation as was done by the Signal Corps was carried on by contracts, Mr. Friedman had been appointed cryptanalyst on 1 January 1921, and with the assistance of only one clerk-typist, engaged in code compilation, theoretical cryptanalysis, testing of proposed cryptographic systems and machinery, preparation of training manuals and conducting of training courses at Army camps.

D. The Founding of the Signal Intelligence Service

When the Signal Intelligence Service (SIS) was founded in 1930 by the amalgamation of the function of MI-8 (solution) with that of the Code and Cipher Section (compilation), the tasks of printing, storing, issuing, and accounting for cryptographic systems were left with The Adjutant General until 1934. In 1934, therefore, responsibility for all phases of cryptological work was for the first time unified in a single Army organization.

The newly organized SIS began by taking over the files of MI-8, but, though offers of employment were made to certain persons at work in MI-8, none of these offers were accepted. Instead, four young men (Messrs Frank B. Rowlett, Abraham Sinkov, Solomon Kullback, and John B. Hurt) were appointed to the staff, and these, together with a few other persons added from time to time, constituted the personnel of the SIS of which the director was Mr. William F. Friedman.

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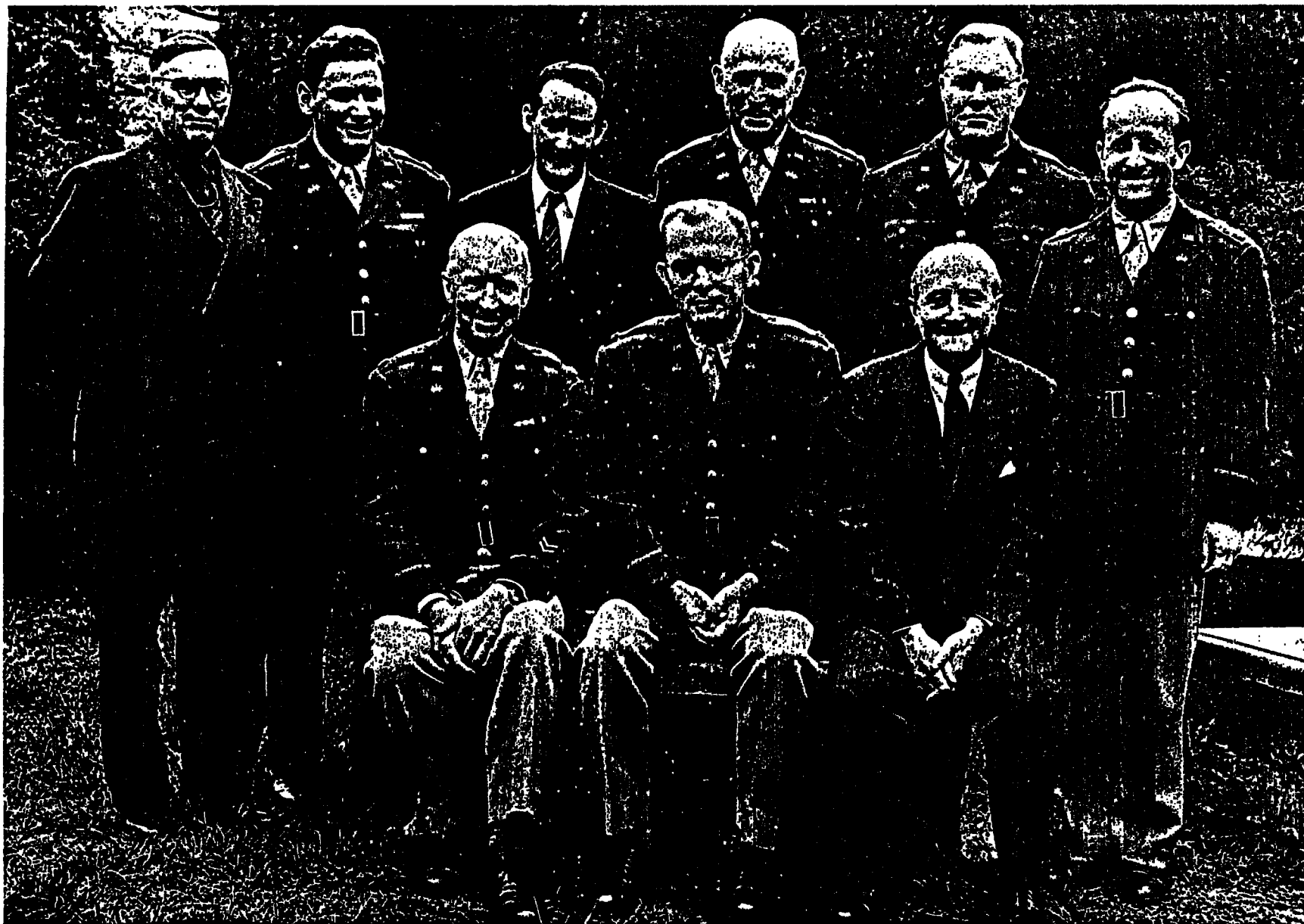
**OLD TIMERS IN THE AGENCY**

**Spring 1944**

**Left to Right**

**Seated:** Lieutenant Colonel A. J. McGrail, Chief, Laboratory Branch  
Colonel W. Preston Corderman, Chief, Signal Security Agency  
Mr. William F. Friedman, Director of Communications Research

**Standings:** Mr. Mark Rhoads, Assistant Director of Communications Research  
Lieutenant Colonel Solomon Kullback, Chief, Military Cryptanalytic Branch  
Mr. John B. Hurt, Translator  
Captain Edward J. Vogel, Chief, Special Documents Section  
Major Frank B. Rowlett, Chief, General Cryptanalytic Branch  
Lieutenant Colonel Abraham Sinkov, Chief, Central Bureau, Brisbane



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Since except for Mr. Friedman, no one in the SIS had experience in cryptography, it was necessary to embark on a vigorous training program. This program included instruction in cryptography and cryptanalysis given to the staff; preparation of training manuals; and the establishment of the Signal Intelligence School, which was created to train Regular Army officers, Regular Army enlisted men, and Reserve Officers in the various phases of cryptological activity to prepare them for an emergency. In all, nine Regular Army officers were so trained before 1941.

Another activity of the SIS was the compilation of sufficient field codes, as well as other codes for special purposes, to prepare for the emergency. At first, these were prepared by hand methods but soon experimentation in the use of automatic machinery for this purpose was successful. Machinery was likewise put to good use in developing cryptanalytic techniques. Proposed cryptographic systems were subjected to cryptanalytic study with the result that many systems were demonstrated to be insecure, and incidentally, the staff was given good practice in cryptanalysis. Efforts were directed to the establishment of a secret ink laboratory, a phase of solution which had been entirely neglected by MI-8. Lack of funds prevented the employment of a full-time chemist but an officer of the Military Intelligence Reserve who had formerly directed the MI-8 laboratory in Washington (A. J. McGrail, then a captain) was transferred to the

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Signal Reserve. He was able to give limited instruction in secret ink techniques in summer courses and established a small laboratory in the Signal Intelligence Service.

Though interception continued for some time to be largely an unsolved problem, efforts to obtain adequate coverage of diplomatic traffic, chiefly Japanese, were constant, and whenever adequate traffic was available, cryptanalytic studies were carried on. Study of the various languages used by the governments which were thought to be potential enemies was carried on with profit.

A beginning was made in the development of automatic machinery. The forerunners of some of the machines which have proved of great value during the course of World War II-were planned and developed in this period.

The most important problem faced by the Signal Intelligence Service was, however, the shortage of funds for research purposes. Throughout the period 1930-1939, economic conditions in the country at large were reflected in decreased War Department budgets, and these decreases were felt severely within the Signal Intelligence Service. Yet in spite of these difficulties, much was accomplished, and the United States Army faced World War II much better prepared than it was at the beginning of World War I.

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CHRONOLOGICAL TABLE OF HEADQUARTERS, ARMY  
SECURITY AGENCY AND PREDECESSORS  
1929 - 1947

<u>ORGANIZATION</u>	<u>SYMBOLS</u>	<u>CHIEF</u>	<u>REPORTING TO</u>
1921 CODE AND CIPHER SECTION, OCSigO 1921 - 1929 Code and cipher compilation only.		Mr. William F. Friedman CIC, Code and Cipher Section, OCSigO, 1921 - 1929	Note: In 1921 Army code and cipher compilation was consolidated under the Signal Corps. The Code and Cipher Compilation Section, OCSigO, consisting of Mr. Friedman and one assistant, reported in succession to Major J.O. Mauborgne, Chief, Radio Engineering Section, Research and Development Division, OCSigO; to Major P.W. Evans, Chief, Training Section, Personnel Division, OCSigO; and Capt Haskell Allison, OIC, Training Division, OCSigO
1929			
1930 SIGNAL INTELLIGENCE SERVICE (Signal Intelligence Section, OCSigO ) Dec 1929 - 1942 Code and cipher compilation, solution, and secret inks.		Mr. William F. Friedman CIC, Signal Intelligence Service, Dec 29 - 31 Jul 35	Maj. D.M. Crawford, OIC, War Plans and Training Division, OCSigO 1929 - 1932

1932

Col. S.B. Akin,  
OIC, War Plans and  
Training Division, OCSigO  
1932 - 1935

1933

1934

Code and cipher com-  
pilation, solution,  
secret inks, printing,  
distribution, and  
accounting.

1935

Maj. W.S. Rumbough,  
OIC, War Plans and  
Training Division, OCSigO  
1935 - 1937

1936

Maj. Haskell Allison,  
OIC, Signal Intel-  
ligence Section,  
OCSigO, 1 Aug 35 -  
22 Apr 38

1937

Signal Intelligence  
Section no longer  
used in reference to  
SIS after 1937.

Maj. Gen. J.O. Mauborgne,  
Chief Signal Officer  
1937 - 1941

1938

Maj. W.O. Reeder,  
OIC, Signal Intel-  
ligence Service, 23  
Apr 38 - 24 Jul 39

1939

1940

Col. S.B. Akin,  
OIC, Signal Intel-  
ligence Service, 25  
Jul 39 - 2 May 41

1941

Lt. Col. Rex W. Minckler  
OIC, Signal Intel-  
ligence Service, 7  
Jul 41 - 2 May 42

Col. Otis K. Sadtler,  
Chief, Operations Branch  
OCSigO, 12 Aug 41 - 24  
Jul 42

1942 SIGNAL INTELLIGENCE  
SERVICE DIVISION, OCSigO,  
19 Jun 42 - 22 Jun 42  
SIGNAL SECURITY DIVISION  
22 Jun 42 - 29 Sep 42  
SIGNAL SECURITY BRANCH  
30 Sep 42 - 1 Mar 43  
SIGNAL SECURITY DIVISION,  
2 Mar 43 -  
SIGNAL SECURITY SERVICE  
25 Jul 42 - 30 Jun 43

1943

SIGNAL SECURITY AGENCY  
1 Jul 43 - 14 Sep 45

1944

1945

ARMY SECURITY AGENCY  
15 Sep 45 -

1946

1947

SPSIS  
2 Mar  
43

WDGSS  
27 Sep  
45

CSGAS  
22 Sep  
47

June 42 - 10 Apr 42

Col. Frank W. Bullock,  
OIC, Signal Intel-  
ligence Service, 2  
May 42 - 31 Jan 43

Commanding Officer,  
Second Signal Service  
Battalion, 19 Nov 42 -  
31 Jan 43

Col. W. Preston Corderman,  
Chief Signal Security  
Branch, OCSigO; Chief,  
SSS, SSA; ASA; Command-  
ing Officer, Second  
Signal Service  
Battalion 1 Feb 43 -  
31 Mar 46

Commanding General, SSA,  
ASA, 18 Jun 45 - 31 Mar 46

Col. Harold G. Hayes,  
Chief, Army Security  
Agency, 1 Apr 46 -

Feb 42

Brig. Gen. Frank E. Stoner  
Chief, Army Communica-  
tions Branch, 25 Feb 42

Chief, Signal Operating  
Services, 2 Mar 43; Chief,  
Army Communications Service,  
9 Jul 43 - 14 Sep 45

Period of DUAL CONTROL  
10 Dec 44 - 15 Sep 45

Col. Carter W. Clarke,  
D/C MIS, 10 Dec 44 -  
11 Jun 46

Maj. Gen. Stephen J. Chamberlin  
Director of Intelligence  
12 Jun 46

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Head of the Department

SIGNAL INTELLIGENCE SECTION

Director in Charge  
Major Herbert H. Anderson

**ADMINISTRATIVE AND SCHOOL SECTION**

Captain James M. Miller, (S.I.)  
 Mr. Herbert H. Anderson  
 Mrs. Louise C. Stephens  
 Capt. George A. Baker (Student)  
 Mr. Charles B. Brown (Student)

**CODE AND TRAINING SECTION**

Mr. W. E. ...  
 Mr. ...  
 Mr. ...  
 Mr. ...  
 Mr. ...  
 Mr. ...  
 Mrs. ...

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Signal Intelligence Section



PLAN OF ORGANIZATION

SIGNAL INTELLIGENCE SECTION

OFFICER IN CHARGE

Major Haskell Allison

ADMINISTRATION AND SCHOOL SECTION

Captain Harrod Miller, O.I.C.  
Mr. Herrick F. Bearce  
Miss Lorraine O. Stephens  
Capt. George A. Bicher (student)  
Lt. Charles B. Brown (student)

CODE AND CIPHER COMPILATION AND  
SOLUTION SECTION

Mr. Wm. F. Freidman In Charge  
Mr. Frank B. Rowlett  
Mr. Robert O. Ferner  
Mr. Lawrence Clark  
Mr. John B. Hurt  
Mr. Samuel S. Snyder  
Mr. Nettie Janssen

(NOTE: Retyped for purposes of clarity.)

(Unclear)  
Signal Intelligence (unclear)  
Signal Intelligence (unclear)

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## CHAPTER II. THE OUTBREAK OF THE WAR IN EUROPE

A. The Current Status

At the conclusion of the Fiscal Year 1937 the Signal Intelligence Service, a field service under the Chief Signal Officer though physically located in Washington, was administered by the War Plans and Training Division, under the general direction of Major W. S. Rumbough, the chief of that division. For the Fiscal Year 1938, the service was authorized a total of eleven civilian employees, with a personnel budget of \$24,350. This authorization marked the first sizeable expansion of the organization since its formation in 1930.<sup>1</sup>

On 2 March 1937 the Signal Intelligence Service consisted of two sections only. The Administration and School Section discharged the responsibilities of the Signal Intelligence School; gave the Army Extension Courses in cryptography and cryptanalysis; was custodian of the codes, ciphers, and secret intelligence devices; and handled the administrative duties of the whole service. Captain Harrod G. Miller served as Officer in Charge of this section and as instructor in the Signal Intelligence School. He was assisted by Mr. (now Lieutenant Colonel) Herrick F. Pearce, assistant cryptographic clerk, and Miss Lorraine C. Stephens, (Mrs. Gleason), Junior Stenographer, who had been appointed in January 1936. Captain (now Colonel) George A. Richer

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1. Memorandum for the Executive Officer, OCSigO, from Edward Barnett, 30 January 1939 (Files of the Control Office, Signal Security Agency), p. 9

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and First Lieutenant (now Colonel) Charles B. Brown were then students in the Signal Intelligence School.<sup>2</sup>

The Code and Cipher Compilation and Solution Section was directed by Mr. William F. Friedman, who had been in charge of the entire Signal Intelligence Service since its origin. Mr. (now Colonel) Frank B. Rowlett was Mr. Friedman's principal assistant.<sup>3</sup> The other five civilians were Mr. (now Lieutenant Colonel) Lawrence Clark, Mr. John B. Hurt, Mrs. Louise N. Nelson, Mr. Robert O. Ferner, and Mr. Samuel S. Snyder. The last two persons had also been appointed in 1936.

Their duties consisted of the compilation and solution of codes and ciphers; the investigation of code and cipher devices and machines; the detection of secret inks; the preparation of technical documents pertaining to signal intelligence activities; and the giving of assistance to the school section through technical advice and aid to Captain Miller.<sup>4</sup>

On 23 April 1938, the Signal Intelligence Service was established as an independent section in the Office of the Chief Signal Officer and various duties formerly discharged by the War Plans and Training Division were transferred to it. These included the following:

- 
2. Ibid., 7; Organization Chart, SIS, 2 March 1937 (SFSIS 320.3).
  3. The other two principal assistants Drs. A. Sinkov and S. Kullback, were at this time respectively in Panama and Hawaii.
  4. Organization Chart, 1937; Memorandum for the Executive Officer, OCSigO, p. 7.

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- a. Maintains liaison with divisions of the Office of the Chief Signal Officer, with other arms and services, with the Navy Department, the War Department, General Staff and with The Adjutant General on all cryptographic matters, except on those of operation performed by the War Department Message Center.
- b. Supervises the operation of the Signal Intelligence School.
- c. Prepares, revises, prints all codes, ciphers and publications relating thereto; stores, issues and accounts for all registered secret and confidential codes, ciphers and cipher devices and publications pertaining thereto; coordinates with the Supply Division in the storage and issue of nonsecret and nonconfidential codes, ciphers and cipher devices and publications relating thereto.
- d. Coordinates with Research and Development Division in the development of cipher devices, cipher machines and related apparatus, and of special equipment for signal intelligence troops.
- e. Supervises and coordinates all signal intelligence activities of the Signal Corps.
- f. Prepares literature relating to signal communication security and coordinates with Plant and Traffic Division in maintaining cryptographic security in the cryptographic section of the War Department Message Center.<sup>5</sup>

This directive represented a considerable expansion in the administrative responsibilities of the Signal Intelligence Service.

An officer of the Regular Army, Major W. O. Roeder, was relieved from duty in the War Plans and Training Division and assigned as Officer in Charge of the Signal Intelligence Service.<sup>6</sup> He had reported to the Chief Signal Officer 2 September 1937, upon his

5. Office Orders No. 31, OCSigO, 23 April 1938 (SP31: 320.3) par. 1.

6. Ibid., par. 2.

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return from Hawaii.<sup>7</sup> Major Reeder was succeeded by Colonel Spencer B. Akin on 25 July 1939.<sup>8</sup> Upon the assignment of Colonel Akin to overseas duty on 2 May 1941,<sup>9</sup> Lieutenant Colonel Rex W. Minckler was transferred from the Military Intelligence Division to be the Officer in Charge of the Signal Intelligence Service, 7 June 1941. Captain Harold G. Hayes was Acting Chief of the Signal Intelligence Service during the interim.<sup>10</sup>

On 10 May 1939 the duties assigned to the Chief Signal Officer relating to code and cipher work were expanded to include the following:

- a. The development, procurement, storage, issue, and repair of signal, meteorological, and cryptographic equipment and supplies.
- b. The preparation, publication, revision, storage, accounting for, and distribution of all codes and ciphers required by the Army, and in time of war the interception of enemy radio and wire traffic, the location of enemy radio stations, the solution of intercepted enemy code and cipher messages, and laboratory arrangements for the employment and detection of secret inks, except such of these duties as he may delegate to unit signal officers.<sup>11</sup>

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7. Special Orders No. 139, War Department, 16 June 1937, par. 1; Office Orders No. 73, GCSigO, 2 September 1937, par. 1.
  8. Par. 18, Special Orders 57, War Department, 10 March 1939, Colonel Akin reported to the Chief Signal Officer, August 1939.
  9. Par. 5, Special Orders 96, War Department, 25 April 1941. Colonel Akin went on leave 2 May 1941.
  10. SFSIS 201 - Rex W. Minckler.
  11. AR No. 105-5, Signal Corps, General Provisions, 10 May 1939, par. 2a, 2c.

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The principal expansion in responsibilities was embodied in the first paragraph which officially recognized the necessity of the development of automatic cryptographic machinery and the success which the Signal Security Service had achieved in that field.

B. Plans for Mobilization

The principal result of the series of European crises in 1938, so far as the War Department was concerned, was to accelerate the plans for mobilization and to prepare for any emergency that might arise. The Signal Intelligence Service was immediately concerned with these plans, for its course of training for the past decade had been designed to meet this situation. See Tab 10.

On 23 September 1938, the Secretary of War directed the Chief Signal Officer to supply information for a long range program for the procurement and training of personnel, and the procurement of equipment for the operation of the Signal Intelligence Service. The Assistant Chief of Staff, G-2, believed that the best information available for military planning was a report of the acts or words of potential enemies and this information was being supplied currently by the Signal Intelligence Service.<sup>12</sup>

Therefore, adequate provisions had to be made to expand the Signal Intelligence Service to meet such situations as might arise under the various color plans. The load of the organization was expected to vary

12. Memorandum for the Adjutant General from the Assistant Chief of Staff, G-2, Subject: Signal Intelligence Service, 23 September 1938, AGO 521,924 (9-23-38) par. 1.

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widely, depending on the effect of the international situation on the national policy of the United States. Plans had to be prepared for four situations:

1. Under existing conditions;
2. Under conditions in which hostilities or a declaration of neutrality by the United States would be imminent;
3. Under conditions in which the United States would be enforcing neutrality;
4. Under conditions arising on the outbreak of hostilities through the several stages of mobilization.<sup>13</sup>

The Adjutant General, through a series of questions to which the Chief Signal Officer replied on 17 April 1939,<sup>14</sup> requested information from the Chief Signal Officer as to the basis for the necessary expansion of the Signal Intelligence Service in relation to the principal service furnished by radio intelligence, radio intercept, cryptanalytic work and translation, and goniometric work.

In time of peace the work of cryptanalysis and translation was purely a War Department activity, but the Signal Intelligence Service had to be prepared in time of war to expand and decentralize.<sup>15</sup> This decentralization and expansion would include not only the expansion of the Signal Intelligence Service in the Office of the Chief Signal Officer,

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13. Ibid., par. 2-3.

14. The Adjutant General to Chief Signal Officer, 24 September 1938, subject: Signal Intelligence Service (AG 321,924) (9-23-38).

15. 1st Ind., the Chief Signal Officer, to The Adjutant General, 17 April 1939, par. 2a; to The Adjutant General to the Chief Signal Officer, 24 September 1938.

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but also the organization of a Signal Intelligence Service for GHO, and for each of the four Armies. In addition, cryptanalytic and translation units would have to be provided for each of the overseas departments.<sup>16</sup>

Of the four basic conditions stated there was no essential difference between the situation in the first three, so far as the activities of the Signal Intelligence Service were concerned, since it was anticipated that additional appropriations would not be quickly available for expansion. Moreover, the nature of cryptanalytic work is such that results could not be expected immediately after commencing work on the traffic of a given nation. Therefore, it was necessary to conduct operations against the traffic of several countries long in advance of any possible hostilities.<sup>17</sup>

In the spring of 1939 operations were already being centered on the traffic of Mexico,<sup>18</sup> Japan, Germany, and Italy in the peacetime organization of the Signal Intelligence Service. Two civilian cryptanalysts were to be maintained in each of the overseas departments by detail from the Office of the Chief Signal Officer. It was recommended that, if possible, they should be Reserve officers who could be called to active duty in

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16. Ibid.

17. Ibid.

18. The inclusion of Mexico probably reflects the conditions of World War I when Mexican relations with the United States were critical.

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case of an emergency. Ordinarily they would function under the direction of the Chief Signal Officer, but in the event of hostilities or the imminence of hostilities they would be available to the commanders of the individual departments for cryptanalytic work. It was assumed that G-2 would provide language officers or other personnel for the translation required.<sup>19</sup>

The existing organization of Signal Intelligence Service in Washington was considered adequate in form but not in personnel or equipment to carry the current loads. Hence, it was recommended that funds be provided for equipment, supplies, and other purposes, and that one additional officer be assigned to the Office of the Chief Signal Officer, effective 1 July 1940.<sup>20</sup>

Though in peacetime all cryptanalysis and translation were performed under the direct control of the Chief Signal Officer, in the event of strained relations or the necessity of enforcing neutrality, this activity would have to be decentralized. To accomplish this, cryptanalytic personnel would be made available to one or more of the commanders of overseas departments.<sup>21</sup>

Under the Green Plan, the decentralization would begin with the transfer of a civilian cryptanalyst, who was also a Reserve officer, from the Office of the Chief Signal Officer to each of the headquarters

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19. Ibid., par. 2b.

20. Ibid., par. 2c.

21. Ibid., par. 3a.

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of the First, Third, and Fourth Armies, in advance of mobilization. Under the Orange Plan, such a cryptanalyst would be sent to the headquarters of the Fourth Army. He would carry with him the latest data likely to be of use and would be available to assist in the organization of the Signal Intelligence Service of the Army upon mobilization. He would also perform such cryptanalytic work as was possible for the Army commander. It was considered essential that the decentralization of cryptanalysis and translation be accomplished as rapidly as possible after M-Day. The service would begin to function with the pertinent Army as soon as it was constituted on M-Day and the services of the other Armies would begin to function as required.<sup>22</sup>

The principal mission of the signal intelligence services of the Armies was to be the solution of low-echelon enemy messages with the aid of information received from Signal Intelligence Service, GHQ. It would make any information derived from the solution of the messages immediately available to the Army commander. The Signal Intelligence Service, GHQ, was to be concerned primarily with the solution of enemy cryptographic systems and with the preparation of cryptographic systems for the field forces under the control of GHQ.<sup>23</sup>

The Signal Intelligence Service, Office of the Chief Signal Officer, would continue to function as in the past, operating against the diplomatic and other traffic of the enemy and of certain neutrals. It would

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22. Ibid., par. 3b.

23. Ibid., Par. 3c.

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also assist the Signal Intelligence Service, GHO, in the solution of enemy field cryptographic systems. Both of these headquarters would carry on the investigation of secret inks. Cryptographic systems for the entire Army would be furnished by the Office of the Chief Signal Officer, but on 14-50 the Signal Intelligence Service, GHO, would take over the provision of cryptographic systems for the field forces under its control.<sup>24</sup>

The tables of organization drawn up for the various units of the Signal Intelligence Service were more extensive than had been provided in the 1938 Revision of the Protective Mobilization Plan. This revision envisaged operations against the communications of a single country, and the prospects of war in both the Atlantic and Pacific areas were already increasing.<sup>25</sup>

Under the Augmentation Plan a large number of specially trained personnel for cryptanalytic work in commissioned, civilian, and enlisted status would be required. Such an expansion demanded a well coordinated training program. Training was already in progress for Reserve officers, but it was estimated that 11 Regular Army officers and 74 Reserve officers would be required. At that time there were five Regular Army officers who were graduates of the Signal Intelligence School. Consequently, it was expected that the remaining six of the

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24. Ibid., par. 3d.

25. Ibid., par. 4a

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required number would be fully trained within six years (two every two years). Several others were being partially trained by correspondence courses.<sup>26</sup>

The Army had to develop cryptanalysts either by training on the job or through the correspondence courses, since there was no vocation in civil life paralleling that of cryptanalyst, and, as a result no reservoir of qualified personnel upon which to draw. The seven cryptanalysts who were then members of the Signal Intelligence Service in the Office of the Chief Signal Officer had been trained on the job. Six of them were Reserve officers. Of the 17 proposed as additions to the organization it was expected that the proportion would be about the same. Therefore, from job training there would be available for mobilization three trained civilians and 14 officers, of whom six would be on foreign service and not available for mobilization in the United States.<sup>27</sup>

Therefore, to meet the requirements of the cryptanalytic work, some 66 Reserve officers would have to be trained by the correspondence course method, supplemented by infrequent and short periods of active duty. Five courses were available for such training, two in cryptography and three in cryptanalysis. Another<sup>28</sup> course was then being compiled

26. Ibid., Appendix II-E Cryptanalytic Personnel, Training of Reserve Officers and Enlisted Men in the Signal Intelligence Specialty, par. 1-2.

27. Ibid., par. 3

28. It was, in fact, not completed until 1942 and the War prevented the preparation of the others.

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and the preparation of a total of 15 was contemplated. At that time 56 Reserve officers were enrolled in the cryptanalytic courses, distributed as follows:

Cryptanalysis, Part I, 24

Cryptanalysis, Part II, 21

Cryptanalysis, Part III, 11<sup>29</sup>

On 29 January 1937 the Chief Signal Officer authorized the inauguration of special instruction in cryptography and cryptanalysis for selected Signal Corps advance students in the ROTC at the University of Illinois. The first group of Signal Corps students to complete this specialized training was commissioned in June 1939.<sup>30</sup>

It was expected that these eight seniors of the University of Illinois would have completed Cryptanalysis, Part I and II by the time they became second lieutenants and that the University would be able to graduate about the same number each year. Therefore, it was obvious that the plan for training Reserve officers would soon provide the estimated number required. The real problem was to push the training to such lengths that the Reserve officers would be able to function with a minimum of delay upon mobilization. The amount of time required for the subcourses in cryptanalysis was necessarily much greater than that required for other military subjects, and it took

29. Ibid., par. 4.

30. Colonel Fred R. Brown to Chief Signal Officer, Subject: Cryptographic Course Instructional Assistance, 26 April 1939, pars. 1-2.

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time to provide the specialized instruction necessary. Consequently, a prerequisite for cryptographic and cryptanalytic specialization was interest in these subjects for their own sake and a willingness to devote time to the subject.<sup>31</sup>

Unless, however, the Reserve officers also completed Cryptanalysis, Part III, they would be of little use in solution work, since in much of the training in both cryptanalysis and cryptography statistical methods had come to be of prime importance. Statistical analysis had been greatly facilitated by the tabulating machinery supplied by the International Business Machines Corporation, and it was expected that the Reserve officers would be trained in the use of these machines when ordered to active duty in the Signal Intelligence School. It was considered essential, therefore, that cryptographic Reserve officers should have considerable active duty with the Signal Intelligence School, although the instruction need not consist of formal courses. Reserve officers could attend the School for periods varying from two weeks to three months, as their current civilian vocations permitted. With this modification, the existing system of training Reserve officers would provide an adequate pool of cryptanalytic personnel for mobilization.<sup>32</sup>

Of the 17 civilian cryptanalysts required for the Signal Intelligence Service, Office of the Chief Signal Officer, three of the

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31. Ibid.

32. Ibid., par. 6

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peace-time personnel of the office would continue as civilians upon mobilization. For the other 14 positions those cryptanalytic clerks whose experience was adequate would be promoted. Steps were already being taken for the training of civilians not eligible for Reserve commissions. Many patriotic citizens had become interested in cryptography as an avocation. From these it was expected a dozen could be selected, investigated, and trained through the correspondence courses used for Reserve officers.<sup>33</sup> Authority had been granted in February 1939 for such training.<sup>34</sup>

Enlisted personnel would be trained through an expansion of the Second Signal Service Company. Three enlisted men would serve as instructors in the Signal Intelligence School after its transfer to Fort Monmouth. Six enlisted men would serve as noncommissioned officers in charge of cryptographic security. They could be fully trained in cryptanalysis through the extension courses and at the Signal Intelligence School. In time of peace they could be of great assistance to commanders and signal officers of the departments and corps areas where they were stationed, both in supervising the cryptographic work and in cooperating in the intercept duties of the Second Signal Service Company.<sup>35</sup>

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33. Ibid.

34. Ibid., 1st Ind. Colonel S. B. Akin to the Commanding General, First Corps Area, Through The Adjutant General, 30 March 1940 (OCSigO 352.9 AEC).

35. Training of Reserve officers.

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At the approach of an emergency these men would be strategically located, one in each overseas department, one each in the Eighth and Ninth Corps Areas, and the sixth with the detachment at Fort Monmouth. Meanwhile, in time of peace, the quota of six could also be used to replace other Signal Corps enlisted men while the latter attended the Signal Intelligence School. In this way, a pool of trained cryptanalytic clerks could be formed while maintaining trained men, instantly available in time of emergency, on foreign service.<sup>36</sup>

The expanded program made it desirable that the school be moved from Washington to Fort Monmouth, New Jersey because of space limitations in Washington and the extreme secrecy of the operations conducted there. It was contemplated moving the Signal Intelligence School to Fort Monmouth in the Fiscal Year 1941 or on the outbreak of an emergency.<sup>37</sup> But the state of the training of the Reserve would not be such that it could function without further specialized training upon mobilization. Therefore, a signal intelligence section would have to be provided for the one Army which mobilized as the covering force. A few men capable of conducting training would be sent to the Signal Intelligence School to augment the instructor personnel. The signal intelligence sections of GHQ and the three

36. Ibid.37. Ibid., par. 8-9~~TOP SECRET~~



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Arms would be mobilized at Fort Monmouth and the necessary training would be completed there in the Signal Intelligence School. Upon the completion of this program the various sections would join their respective headquarters and the school would continue on a reduced basis. The men from the Office of the Chief Signal Officer who were added to the instructor personnel of the school would become a part of the (HQ) Signal Intelligence Service. Those Reserve officers who were assigned to the Signal Intelligence Service, Office of the Chief Signal Officer, would be expected to complete their training of the job.<sup>38</sup>

The plans for mobilization also proposed an expansion of the intercept service operated by the Second Signal Service Company, an organization subordinate to the Signal Intelligence Service.<sup>39</sup>

Detachments of the Second Signal Service Company in Hawaii (Station 5) and Panama (Station 4) were already organized, equipped, and trained to perform both radiogoniometry and intercept work. Training of the overseas detachments would be continued until radio intelligence companies could be furnished the departments. After that, the Second Signal Service Company would discontinue training in this specialty. The Navy was responsible for long-range radiogoniometry utilizing fixed installations in overseas areas, but the Army would

38. Ibid., 11.

39. 1st Ind., The Chief Signal Officer to The Adjutant General, 17 April 1939, par. 5a.

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undertake short-range goniometry in areas overseas whenever necessary. This function on land properly belonged to the tactical radio intelligence company.<sup>40</sup>

The existing detachments of the Second Signal Service Company, however, then lacked personnel and equipment sufficient to perform the necessary intercept work against the four countries. In intercept work trained and experienced men are necessary, and high grades and ratings were offered in order that the finest radio operators might be inspired to adopt the service as a lifetime career. Reasons of security also dictated this course, since the return to civil life of men who were aware of the purpose of the work constituted a potential leak of information about the activities of the Signal Intelligence Service.<sup>41</sup>

It was evident that, upon the outbreak of hostilities, new intercept stations would have to be established near Seattle, Washington and Washington, D. C., and, to operate these stations, it would be necessary to augment the Second Signal Service Company. While in peacetime the Company functioned under the direction of the Chief Signal Officer, it was planned in an emergency to decentralize them in accordance with the color plans. Under the Orange Plan overseas detachments would continue on their previously assigned missions under the control of the Department Commander, undertaking

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40. Ibid., par. 5 b

41. Ibid., par. 5c-d.

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such additional missions as he desired. Traffic would be scrutinized by the department cryptanalytic personnel and messages appearing important would be forwarded to the War Department by radio in special cipher. As much traffic as possible would be decrypted locally and the translations transmitted to the War Department by radio, while copies of all intercepted material would be forwarded to the War Department by mail. The Chief Signal Officer in turn would furnish the keys to current enemy cryptographic systems to the department commanders.<sup>42</sup> The control of the detachment in the Ninth Corps Area would pass also to the Commanding General of the Fourth Army, and it would function under him in the same way as did the overseas detachments. If the Green Plan was put into effect, only the detachments in the Eighth and Ninth-Corps Areas would be affected; they would pass to the control of the Commanding General, Third Army, and the Commanding General, Fourth Army, respectively.<sup>43</sup>

The Second Signal Service Company was the agency by which radio traffic would be secured for study and solution. Traffic was sent also by mail, courier, and by cable, and in order to obtain adequate coverage, it would be necessary to tap these sources, particularly the cable sources. The Communications Act of 1934 applied penalties to the interception of diplomatic traffic but the Signal Intelligence

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42. Ibid., par. 5e-f.

43. Ibid., par. 5d.

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Service would be able to ignore the act under the directions issued by the Secretary of War.<sup>44</sup>

The Communications Act did, however, prevent the Signal Intelligence Service from securing copies of messages from the cable companies. An attempt of the War Department, in cooperation with the Treasury Department, to secure an amendment to the Act, had been abandoned, because of the opposition of the Federal Communications Commission, and it was now recommended by the Chief Signal Officer that the proposed amendment should be presented again when conditions appeared more favorable for such legislation.<sup>45</sup>

Responsibility for attacks upon the low-echelon military communications of the enemy was to be charged to the signal intelligence services of GIC and the Armies, assisted by the War Department. Material for study and solution was to be gathered by radio intelligence companies assigned to the Armies and to GIC. The companies also would develop combat information by radiogoniometric study of enemy radio sets and would perform missions of signal counter intelligence by setting up dummy radio nets to deceive the enemy. Using the experience gained in World War I, it was recommended that each Army should be provided with one of these companies, while GIC would have a reserve of four. In addition, one radio intelligence company would be located in the

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44. Ibid., par. 6

45. Ibid.

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Panama Department and another in the Hawaiian Department.<sup>46</sup>

Under the plans for joint action between the Army and Navy, the Army was charged with the surveillance of nonmilitary radio when the President proclaimed the existence of an emergency. The surveillance of commercial radio stations was considered a relatively simple matter and would require no action by the Signal Intelligence Service, but the surveillance of unauthorized radio stations presented a formidable problem which, in 1939, was still being studied.<sup>47</sup>

By short-wave radio, communication is possible over great distances but detection and location of illicit stations is difficult. Enemy agents within the United States could thus communicate with their homeland or with neutral countries by short-wave radio with impunity, unless an effective organization was provided for the surveillance of unauthorized stations. Control of this activity could best be provided by means of radio intelligence companies provided with an organization and equipment different from those of the tactical radio intelligence companies. The study of the precise organization and equipment of this type of company had yet to be concluded.<sup>48</sup>

The procedure suggested was to establish one set of three intercept stations along the Pacific Coast, another set of three in the Midwest,

46. Ibid., Par. 8a.

47. Ibid., Par. 8a.

48. Ibid., appendix V, Par 1.

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and a third set of three along the East Coast. Three stations are required to make a goniometric location, two to obtain an intersection and one to check it. Each station would operate both intercept and goniometric services. When an unauthorized station was detected, the three goniometric stations would be directed upon it and the set would be located within a definite area. Then the mission of exact location and suppression would be turned over to a radio intelligence company active in the area of the offending station. This company would be equipped with intercept facilities and with short-range goniometers. It would send a detachment to the area indicated and suppress the station when it was more precisely located.<sup>49</sup>

In order to make this procedure possible, it was essential that all short-wave stations, except those operated by the Army and the Navy, commercial stations which were subject to censorship, and certain amateur radio stations operated under War Department supervision in connection with the aircraft warning service, should be closed by an Executive Order. Any short-wave radio communication by unknown stations would then be unauthorized and could be dealt with accordingly.<sup>50</sup>

To be effective during the period most dangerous for sabotage and espionage, the organization for surveillance had to be placed in operation at once. It was obvious that this could not be maintained in

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49. Ibid., par. 2.

50. Ibid., par. 3.

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time of peace, but plans could be made to use existing facilities. The Federal Communications Commission operated seven intercept stations for the monitoring of commercial and other radio stations, three on the Atlantic Seaboard from Boston to Marietta, Georgia; two in the Midwest; and two on the Pacific Coast. One additional station in each of the latter two regions would enable these stations to serve as a nucleus for the wartime requirements.<sup>51</sup>

The FCC stations were not equipped at that time for the precise requirements, but they could be so equipped in time of peace to assume this function in war time. Since some of the FCC personnel at the monitoring stations were Signal Reserve officers, it would be simple to organize a radio intelligence company for each of the three areas, using the Reserve officers as a nucleus. They could be given periods of active duty in which they could study wartime requirements of Army surveillance and in which they could locate amateur radio operators who might be enlisted in an emergency. Thus, an organization could be prepared for efficient operations in an emergency.<sup>52</sup>

While these recommendations, if adopted, would be effective for providing long-range surveillance, the organization of the necessary

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51. Ibid.

52. Ibid.

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companies for short-range surveillance was more difficult. It was contemplated that interested Signal Reserve Officers could be put into radio intelligence companies of the Organized Reserves. Encouraged to learn their duties by frequent periods of active duty with the First Radio Intelligence Company, they could also contact radio amateurs for service in an emergency. These companies would require the development and procurement of special vehicles with radiogoniometers and intercept equipment adapted to surveillance work. In the event of war, one company would be located in each corps area.<sup>53</sup>

It was not expected that the Army should attempt the surveillance of nonmilitary radio until H-Day, since in time of peace the detection of unauthorized radio stations was an FCC function. In addition to the seven fixed monitoring stations used for this purpose the Commission had planned to use mobile direction finders in this service, and it was recommended that these be taken over by the War Department or continue to function under War Department supervision.<sup>54</sup>

The immediate requirements for GHQ and one Army at the outbreak of hostilities would consist of two radio intelligence companies for GHQ and one for the Army. In 1939, the First Radio Intelligence Company was already available and two National Guard radio intelligence companies were being organized. It was considered advisable to plan

53. Ibid., par. 4.

54. 1st Ind., Chief Signal Officer to The Adjutant General, 17 April 1939, par. 8b.

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to assign the former to the Army and the latter two to GHQ. All of these companies would require considerable expansion in wartime, but their strengths were sufficient to give a cadre of trained men upon which to build. They already had the critical items of their war equipment and it was believed that they would fill the immediate requirements for GHQ and one Army.<sup>55</sup>

A radio intelligence company would also be required in each of the Panama Canal and Hawaiian Departments, not only in the event of hostilities, but for some time prior to that crisis. Obviously, the problem of surveillance in these departments would be paramount long before any hostile incursion might be reasonably expected. It was recommended that two additional radio intelligence companies be organized at once to be stationed in the two departments.<sup>56</sup>

Trained personnel for the radio intelligence companies was not immediately available but it was believed that, with a moderate amount of training given after their induction into the service, radio amateurs could perform the duties in a creditable manner. Further expansion of ROTC activities in this field was considered neither essential nor even desirable.<sup>57</sup>

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55. Ibid., par. 9.

56. Ibid., par. 10

57. Ibid., par. 12a.

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The intercept equipment was commercial type radio equipment except for the radiogoniometers, which were critical items. Because of the rapid obsolescence of radio equipment, it was not considered advisable to put radio sets in a war reserve. Since it was impossible at that time to predict the exact nature of intercept equipment which would be required if hostilities occurred. (Instead it was recommended that in peacetime the development of radiogoniometers should be continuous, including those mounted in special vehicles.) The equipment necessary to intercept enemy communications would depend on the type used by the enemy.<sup>58</sup> This policy would enable the Signal Corps to employ the most advanced equipment.<sup>59</sup>

In the combat zone, the interception of wire communications was divided into two classes: interception along the front, and interception in enemy areas well in the rear of the front line. The first objective demanded men with telegraph and telephone experience. Extensive training for this work could not be carried on in peacetime. In the mobilization plans, however, contact with enemy ground troops was not contemplated for several months. Ample time would, therefore, be available in which a wire 'listening in' service could be improvised and trained. It could easily be provided by expanding the mission of the radio intelligence companies. In peacetime they could study and

58. He might use television, facsimile transmission, scrambled speech or other developments and the radio intelligence companies had to be equipped to intercept any method of transmission.

59. Ibid., par. 12 g.

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receive training in wire intercept methods.<sup>60</sup>

The intercept of enemy wire communications in rear areas was considered of the utmost importance.

The penetration of these areas by the Cavalry, particularly the Mechanized Force, will offer tremendous opportunity for action against wire communication such as the Cavalry used so effectively during the Civil War.<sup>61</sup>

Such an action would include not only listening in on enemy telephone, telegraph, and teletype circuits, but also the seizure of files of messages in stations during the raids and any other measures which would give information to the Army. It was recommended that this mission should be specifically assigned to the Cavalry in order that adequate peacetime training might be initiated. In addition the Chief Signal Officer and the Chief of Cavalry would study jointly the methods and apparatus necessary for wire intercept based on systems used in North, Central, and South America, with the ultimate objective of providing suitable equipment to the Cavalry for wire intercept work.<sup>62</sup>

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60. Ibid., par. 12 h (1)-(2).

61. Ibid., par. 12 h (3).

62. Ibid.

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## CHAPTER III. THE EXPANSION OF THE SIGNAL INTELLIGENCE SERVICE 1939-1942

A. The Authorization for Expansion

The outbreak of the War in Europe on 1 September 1939 brought, of course, a quickening of tempo to the entire War Department, and among the activities which early felt this effect was that of the Signal Intelligence Service. In the preceding April the plan for the peacetime establishment had called for 35 civilians, distributed as follows:

Administrative Section	2
Correspondence, Files and Typing Section	4
Statistical Machinery and Reproduction Section	3
Compilation, Accounting and Security Section	5
Code and Cipher Solution Section	5
Japanese Unit	5
German Unit	5
Italian Unit	5
Mexican Unit	6

It was assumed that the practice of detailing Japanese language officers to the Translation and Secret Inks Section for six-month periods of duty would be continued. No Secret Inks personnel would be required in time of peace. Of the translators, two would concentrate on Japanese, two on Italian, Spanish, and German, one on Italian, Spanish, and German, one on Italian, Spanish, and French, and one on German and Russian.<sup>1</sup>

In the overseas departments, six additional cryptanalysts (two for each department) were required—one was already authorized for the Hawaiian Department—and it was planned that the vacancies would

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1. 1st Ind., Chief Signal Officer to The Adjutant General, 17 April 1939, par. 8b.

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be filled by appointment of personnel on duty in Washington for a three-year tour of duty in rotation. The new positions could not, however, be filled until sufficient cryptanalysts had been appointed and trained in Washington for this purpose. The personnel needed for translation in the overseas departments would be provided by G-2 whenever the cryptanalytic personnel were made available to the Department Commanders by the Chief Signal Officer.<sup>2</sup>

In April 1939 the Signal Intelligence Service was authorized 14 civilian employees at annual salaries totalling \$35,080. It was now proposed that the new personnel be appointed gradually over a period of four years, beginning with the Fiscal Year 1940, as follows:<sup>3</sup>

<u>Fiscal Year</u>	<u>Actual</u>	<u>Proposed</u>	<u>Salary Budget</u>
1939	14	0	\$ 35,080
1940	14	5	46,300
1941	19	10	64,360
1942	26 <sup>4</sup>	8	82,300
1943	35	9	100,500

Other expenditures from the Fiscal Year 1941 to the Fiscal Year 1943 were estimated as follows:

2. Ibid.
3. Ibid., appendix I-B.
4. It was planned to drop one employee at the beginning of the Fiscal Years 1942 and 1943; hence, the discrepancy in these figures.

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<u>Items</u>	<u>FY-1941</u>	<u>FY-1942</u>	<u>FY-1943</u>
Rental of labor saving machinery <sup>5</sup>	\$ 9,180	\$ 9,180	\$ 9,180
Office furniture	1,000	1,000	1,000
Office supplies	1,200	1,500	1,800
Printing and binding	13,000	13,000	13,000
Contingencies <sup>6</sup>	2,000	2,000	2,000
Transportation <sup>7</sup>		1,800	2,700
	<u>\$26,380</u>	<u>\$28,480</u>	<u>\$29,680</u>

While only one officer would be required in time of peace, 21 would be required during a period of protective mobilization. These included one colonel (Regular Army), and 20 Reserve officers, and it was estimated that 61 civilians would be required in that period.<sup>9</sup>

The Augmentation Plan, necessary for the complete mobilization of the Signal Intelligence Service, recommended assignment of 13 additional Reserve officers and a total of 99 civilians.<sup>10</sup>

These recommendations had been submitted to The Adjutant General for approval, but the situation in Europe gave justification for a

5. This rental included two Printers, one Sorter, two Alphabetic Punches, and one Reproducer. See volume Eleven (Machine Branch).
6. These expenditures included costs of cards and forms for IBM machines, technical papers, training literature, replacement of current codes and ciphers, and new codes as required.
7. Transportation expenses included movement of four employees to and from foreign service each year, movement on large-scale maneuvers, mileage for officers on code production and SIS work, ciphers and other secret and confidential material, and air mail and registry.
8. See document cited in note 1, appendix I-C.
9. Ibid., appendix II-A.
10. Ibid., appendix II-B.

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greater and more immediate expansion of the Signal Intelligence Service than was contemplated in this long-range program. On 11 September 1939 the Chief Signal Officer recommended<sup>11</sup> that a total of \$58,950 be made available from the reserve withheld by the Director of the Bureau of the Budget under the item "Signal Service of the Army 1940—Administrative Reserve for Savings and Contingencies." These funds were to be used as follows:

Employment of additional civilian personnel	\$40,650
Equipment and Supplies	18,300
Total	<u>\$58,950</u>

This sum would be replaced by a similar sum to be obtained through a deficiency appropriation.<sup>12</sup>

To accommodate the increased number of civilians, it was also recommended that 8,000 square feet of floor space on the third floor of the third wing of the Munitions Building be made available. To avoid delays in expansion caused by the necessity of operating under Civil Service Regulations, it was further recommended that action be taken to permit the employment of qualified civilian specialists directly rather than through Civil Service lists. The secret nature

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11. Considering the time necessary for the Signal Intelligence Service to prepare its recommendations to the Chief Signal Officer, the fact that the expansion could be recommended by the Chief Signal Officer in only 11 days after the attack on Poland is significant.
  12. The Assistant Chief of Staff, G-4 from the Executive Officer, OCSigO, Subject: Expansion of the Signal Intelligence Service—Funds and Space, 11 September 1939 (OCSigO, 320.3 (SIS), par. 1a).

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of the work made it highly desirable that the personnel be obtained in the most expeditious manner from all available sources.<sup>13</sup>

The Assistant Chief of Staff, G-4, approved the request for additional funds and space. The amount requested was to be included subsequently as part of the Supplemental Estimate to be submitted to Congress under the deficiencies incurred by the program increasing the Regular Army to 227,000 men. The space requested would be available on 1 November 1939, when the Finance Officer, U. S. Army, vacated the office space he then occupied. The question of the employment of qualified civilian specialists directly, and not necessarily through the Civil Service lists, was to be referred by the Chief Signal Officer to the Civilian Personnel Division, Office of the Secretary of War, which would then present the matter to the Civil Service Commission for decision. Approval was given these recommendations<sup>14</sup> by the Secretary of War on 18 September 1939. On the same day the Chief Signal Officer was advised by The Adjutant General that the expansion of the Signal Intelligence Service had been approved and that the Budget Officer for the War Department would request the Bureau of the

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13. Ibid., pars. 1b, 2.

14. Memorandum for the Chief of Staff from the Assistant Chief of Staff, G-4, Subject: Expansion of the Signal Intelligence Service, including release of \$58,950 Administrative Reserve, 12 September 1939 (AG 321.924) (9-11-39).

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Budget to release the necessary funds.<sup>15</sup>

On 14 September 1939 the Chief Signal Officer submitted a revised plan for the expansion of the Signal Intelligence Service. The estimates were based on operations from 1 October 1939 to 30 June 1940, the remainder of the current fiscal year. After that period, emergency or regular funds would be secured by suitable budget estimates, and it was requested that the additional funds should be released at once.

These were to be used as follows:

- |  |          |
|--|----------|
| 1. Immediate and urgent increase in civilian personnel<br>(One cryptanalyst at \$4,200 was required to bring the total additional personnel to 26. The total personnel budget would then be \$50,800.) | \$44,850 |
| 2. Increase in equipment and office supplies<br>(This included one additional printer.)  | \$11,300 |
| 3. Additional electrical protective devices  | \$ 7,000 |
| 4. Equipment for a monitoring station near Washington (Possibly to be at Fort Hunt, Virginia)  | \$26,160 |
| 5. Increase in equipment for completion of existing monitoring stations  | \$76,095 |
| 6. Increase in funds for operations, maintenance, and repairs of monitoring stations   | \$10,000 |

These recommendations provided for the additional items which had been found necessary since the submission of the original study on 17 April 1939. Even so, the requirements of the Augmentation Plan would not be

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15. The Adjutant General to the Chief Signal Officer, Subject: Expansion of the Signal Intelligence Service, including release of \$58,950 Administrative Reserve, 18 September 1929 (AG 321.94 (9-11-39)).

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not, but as a basis for the expansion of the Signal Intelligence Service to meet its ultimate requirements, the proposals were satisfactory.<sup>16</sup>

Besides the additional civilian employees required, it was recommended that one more Regular Army officer be assigned as assistant to the Officer in Charge of the Signal Intelligence Service. Eight Reserve officers should be called to active duty for an indefinite period in code and cipher solution work.<sup>17</sup> The total space required to accommodate the expanded service (8,000 square feet) was not obtainable in the Signal Office, then in the fourth wing, third floor, of the Munitions Building. The space currently occupied by the Signal Intelligence Service was to be turned over to the War Department Message Center for the expansion of the Code Room and Message Center,<sup>18</sup> and space sought elsewhere.

The proposed monitoring station to be established near Washington was to be located possibly at Fort Hunt, Virginia. A captain or lieutenant would be placed in charge of this station, and the Second Signal Service Company would have to be expanded by the addition of 26 enlisted men. These enlisted men would be provided as an increased allocation to the Signal Corps from the increase of the Army recently

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16. Memorandum for the Assistant Chief of Staff, War Plans Division, Thru the Assistant Chief of Staff, G-2, 14 September 1939 (AG 321.924 (9-14-39)).

17. Ibid., par. 2a (3)

18. Ibid., par 2a (4)

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directed by Presidential Proclamation.<sup>19</sup>

Approving these recommendations of the Chief Signal Officer, the Assistant Chief of Staff, G-2 forwarded them to the Chief of Staff on 23 September 1939. The 26 civilians to be employed were to report for duty by 1 October 1939. One additional Regular Army officer and eight Reserve Officers were required to supervise the work. The Assistant Chief of Staff, G-1 had already increased the allotment of Thompson Act Reserve officers for the Signal Corps: nine were to be called to active duty. Arrangements had also been made to have a building satisfactory for the receiving station available at Fort Hunt, Virginia, and the authorization of the additional enlisted men for the Second Signal Service Company had been approved.<sup>20</sup>

A total of \$175,405 was required for the expansion of the Signal Intelligence Service, of which \$58,950 had already been requested. The sum of \$91,050 was still available in the Secretary of War's reserve and the Administrative Reserve, Signal Service of the Army. The balance required was therefore \$25,405.<sup>21</sup>

The Budget Officer for the War Department would request the Bureau of the Budget to release \$41,050 for immediate use from the Administrative Reserve, Signal Service of the Army, 1940. The Chief of Finance

19. Ibid., par. 2b.

20. Memorandum for the Chief of Staff from the Assistant Chief of Staff, G-2, Subject: Signal Intelligence Service, 23 September 1939, NS (621.924 (9-14-39)). See para. 1-3.

21. Ibid., sec. II, para. 4

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would make available for immediate use the sum of \$50,000 then in an unallotted status in the reserve of the Secretary of War, Signal Service of the Army. The balance necessary for the purchase of equipment would not be available for obligation until the total deficiency of \$175,405, required for the expansion, was covered by Congressional appropriations. It was further recommended that the necessary arrangements for the Civil Service exemptions required should be made in collaboration with the Assistant Chief of Staff, G-2. On 26 September 1939 the expansion was approved by the Secretary of War, and the Chief Signal Officer was advised of the authorization on 27 September 1939.<sup>22</sup>

On 26 October 1939, however, the Chief Signal Officer proposed an amendment to the directive of 27 September 1939. It was desired, as a result of the experience gained in attempting to obtain personnel of the required qualifications, to employ personnel in excess of the 26 authorized, in order that the Signal Intelligence Service would eventually obtain sufficient qualified personnel. This goal would be achieved either in conformity with the existing Civil Service rules or under authorized exemptions therefrom. It was expected that the general change in the wording of the directive would provide the flexibility needed to fill the various positions in the most

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22. Ibid., sec. III, The Chief Signal Officer from The Adjutant General, Subject: Signal Intelligence Service, 27 September 1939 (AG 321.924 (9-14-39)).

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expeditious and effective manner.<sup>23</sup> This proposal was on 2 November 1939 also approved.<sup>24</sup>

B. Civilian Expansion

The Chief Signal Officer requested that the 26 additional civilians authorized on 2 November 1939 should be employed without reference to Civil Service rules on the basis of Executive Order No. 8257, 21 September 1939, authorizing excepted appointments to meet a public exigency:

By virtue of and pursuant to the authority vested in me by the provisions of Paragraph Eight of subdivision SECOND of Section two of the Civil Service Act (22 Stat. 403, 404), it is hereby ordered that, subject to appropriate noncompetitive tests of fitness, the Civil Service Commission is authorized to permit an immediate appointment without regard to the competitive requirements of the Civil Service Rules in any case in which it appears that a public exigency exists which is directly connected with the neutrality of the United States or the preparedness program of the Federal Government. This authority may be used only under most unusual and compelling circumstances, and the person or persons so appointed will not thereby acquire a classified civil service status.<sup>25</sup>

It was recommended that the President be requested to approve the immediate appointment of not more than 26 persons to the positions specifically authorized on a temporary basis until 30 June 1940.

23. Inclosure to Memorandum for the Assistant Chief of Staff, Air Plans Division from The Acting Chief Signal Officer, Subject: Signal Intelligence Service - Changes in Directive of September 7, 1939, (AG 321.924 (10-26-29)).

24. The Adjutant General to the Chief Signal Officer, Subject: Signal Intelligence Service - Changes in Directive of September 27, 1939, 2 November 1939 (AG 321.924 (11-2-39)).

25. Quoted in Memorandum to the Chief of Staff from the Acting Assistant Chief of Staff, G-2, Subject: Signal Intelligence Service, 26 October 1939 (AG 321.924 (9-14-39)).

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end of the current fiscal year. While some of these positions were of a clerical nature, most could be filled only by persons who were professionally or by avocation qualified for various forms of code and cipher work. All of the clerical, and some of the professional positions, would be filled by the promotion or transfer of existing Civil Service employees or from rosters supplied by the Civil Service Commission. These positions, however, could not be filled from Civil Service sources. The exigency required that the competitive requirements should be waived under the executive order.<sup>26</sup>

The proposed letter, signed by the Secretary of War, Mr. Harry H. Woodring, was presented to the Presidential Aide, Major General Edwin H. Watson, through whom Presidential approval was obtained. It was decided that the Secretary of War should outline the procedure to be followed. The Secretary instructed his administrative assistant, Mr. John W. Martyn, to make the necessary arrangements with the Chief Signal Officer, through Mr. A. H. Onthank, Director of Personnel, War Department, on 1 November 1939.<sup>27</sup>

Three days later, authority was requested from the Civil Service Commission to appoint a limited number of employees outside of the competitive classified service. Three persons, Research Analytic Specialists, were to be appointed under Executive Order 8257, and

26. Secretary of War to The President, 26 October 1939 AG 321.924 (9-14-39). This letter was signed but not directly presented to the President.

27. Memorandum to Secretary, General Staff by T. G. Thornton, 1 November 1939 (AG 321.924 (9-14-39)).

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23 others were to be appointed under Civil Service Rules, Schedule A, Paragraph IV-B, "in connection with positions, the duties of which are of a quasi-military nature and involve the security of secret or confidential material".<sup>28</sup>

The persons in the first category should possess the following qualifications:

1. They should be Reserve Officers or civilian personnel with additional training represented by at least a Master's degree from a recognized institution of learning.
2. They should possess an exceptional reading, writing, and speaking knowledge of the language of certain countries sufficient to reconstruct passages in that foreign language in which portions of the text and wording are missing.
3. They should also possess wide knowledge of political, economic, and social conditions in certain countries, together with a background of knowledge of statesmen and leaders, as well as past and current foreign policy.
4. Finally, they should have had training and experience indicating the possession of inductive or deductive qualities of mind necessary for extremely difficult research tasks.<sup>29</sup>

The persons in the second category would be either Reserve Officers, former enlisted men, or civilians who had undergone specialized training in cryptography and cryptanalysis, in other words, training equivalent to the satisfactory completion of the Extension Courses through Military Cryptanalysis, Part I.<sup>30</sup>

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28. Civil Service Commission, Personal Attention Mr. L. A. Moyer from Director of Personnel (War Department) 4 November 1939 (SPSIS 4A-Files of Chief of Personnel Branch).

29. Ibid., A.

30. Ibid., B.

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The candidates for the 26 positions had already been selected from a list of Reserve officers, former enlisted men of the Signal Corps, and members of the American Cryptogram Association, the only civilian organization known to exist in these fields. The Association had recommended 80 of its members who had submitted answers to questionnaires. Their educational and cryptographic training and experience, as well as their language qualifications, had been carefully evaluated. Those selected were to be employed on a temporary basis until 30 June 1940. It was contemplated that 12 would be selected for permanent employment at that time, since it was necessary that persons of untested qualifications and mental characteristics be subjected to lengthy training in order that their adaptability to the specialized work might be fully ascertained. The selection of the permanent employees would be based on the quality of their work and their demonstrated qualifications during the period of their temporary employment. In the negotiations the total authorization was increased to 27 by the addition of a fourth Research Analyst on 8 November 1939.<sup>31</sup>

On the same day the appointment of the 27 persons under Schedule A, Subdivision IV, Paragraph 4, to serve until 30 June 1940, was approved by the Civil Service Commission, and it was considered preferable to appoint all of them under this authority rather than

31. Ibid., Civil Service Commission, Attention Mr. L. A. Moyer, Executive Director and Chief Examiner from A. H. Outhank, Director of Personnel, 15 Nov 39.

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under the Executive Order.<sup>32</sup> The pertinent paragraph provided that the excepted positions in the War Department were those, the duties of which were of a quasi-military nature and involved the security of secret or confidential matter, which in the opinion of the Commission could not be filled from registers of eligibles.<sup>33</sup>

Prior to this time the code clerks had been employed from rosters of Civil Service eligibles who had taken a Civil Service examination, but there were no special rosters devoted to code and cipher personnel. When a vacancy occurred, a person qualified for a stenographic or clerical position was given specialized training in code work.<sup>34</sup> (7061)

By 22 December 1939, six Cryptographic Specialists had been appointed. Three of the appointees held commissions in the Signal Reserve and all had special qualifications. Glenn S. Laudig, who had received his cryptographic training as an enlisted man in the Panama Canal Department, had recently received an honorable discharge from the Army. Ralph A. Dutton had attended the Signal School (1937), and Edward J. Hawkins had some knowledge of Japanese. Leo Rosen was a graduate of the Massachusetts Institute of Technology and had some

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32. L. A. Moyer, Executive Director and Chief Examiner, Civil Service Commission, to Director of Personnel, War Department, 8 November 1939 (SPSIS-4 - Files of Chief of Personnel Branch).
33. U. S. Civil Service Commission, Civil Service Act and Rules, Statutes, Executive Orders, and Regulations, Amended to 30 November 1941, Washington, 1941. The earlier issue was dated 30 June 1939.
34. William F. Friedman to Michael M. Block, 19 July 1938 (SPSIS-Daily File).

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knowledge of Russian. Kenneth D. Miller was qualified for initial appointment in the Signal Reserve and had a knowledge of Spanish. Cyrus C. Sturgis, Jr., had a knowledge of German and was qualified for appointment in the Signal Reserve.<sup>35</sup> Only seven of the total authorized had been employed. A greater number had not been obtained because of the time required for the investigations undertaken by the Federal Bureau of Investigation and the tests and interviews inaugurated by the Signal Intelligence Service. In addition, the brief period of employment offered was found to be insufficient either to attract the most desirable candidates or to give the desired degree of proficiency. The new personnel would thus be unable to compete on an equitable basis with the personnel already employed. Therefore it was thought desirable to extend the period so that the Signal Intelligence Service could "take care of the needs of a probable future expansion that may result from the present emergency and its possible aftermath". It was requested that as a result of experience in the employment of civilians, the authority for the employment of personnel in the exempted status should be extended to 30 June 1941.<sup>36</sup>

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35. Colonel S. B. Akin to Mr. A. Heath Onthank, Director of Personnel, War Department, 22 December 1939 (SPSIS-4A-Files of Chief of Personnel Branch). Of these only Leo Rosen, now Lieutenant Colonel, Signal Corps, was on duty with the Signal Security Agency throughout the War.
36. Mr. A. Heath Onthank from Executive Officer, OCSigO, 5 February 1940 (SPSIS-4A-Files of Chief of Personnel Branch).

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The Civil Service Commission approved this proposal on 16 February 1940.<sup>37</sup>

By the end of the Fiscal Year 1940 the Signal Intelligence Service included 46 civilians, an increase of 30 over the number at work on 12 May 1939.<sup>38</sup> During 1940 applications were received and personnel contacted for enrollment in the extension courses and preliminary training as potential candidates for employment.

By 1 January 1941 the Signal Intelligence Service had been authorized increases in personnel which doubled its strength. This authorization had been granted in the carte blanche approval of the expansion of the Signal Intelligence Service on 2 November 1939. Consequently, it was necessary that modifications be made in the existing Civil Service instructions governing the number of employees and the duration of their employment.<sup>39</sup> It was recommended that the authority permitting temporary employment of persons in the exempted status be extended from 30 June 1941 to 30 June 1943. The number of Research Analytic Specialists were to be increased to eight and the number of Crypto-

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37. The Secretary of War, Attention Director of Personnel from L. A. Moyer, Executive Director and Chief Examiner, Civil Service Commission, 16 February 1940 (SPSIS-4A-Files of Chief of Personnel Branch).
38. Memorandum for the Executive Officer from Colonel S. B. Akin, 29 June 1940 (SPSIS - Daily File); Memorandum to the Executive Officer from SIS, 12 May 1939 (SPSIS - Daily File).
39. Mr. A. Heath Onthank, Director of Civilian Personnel War Department, from Executive Officer, OCSigO, 11 December 1940 (SPSIS-4A-Files of Chief of Personnel Branch).

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graphic Specialists to 56.<sup>40</sup> This recommendation was approved on 9 January 1941.<sup>41</sup>

By 2 April 1941 there were 93 positions authorized with a total potential payroll of \$190,660, but the actual strength was 69 persons with a payroll of \$140,460. In the middle of that month, further plans for expansion were made. The Research Analytic Specialists were to be increased to 30 and the Cryptographic Specialists to 150.<sup>42</sup>

The Civil Service Commission approved the increase in the number of Research Analytic Specialists to a total of 30 on 24 April 1941; no authority was granted, however, for any change in the conditions of the employment of Cryptographic Specialists. This resulted from a change in the qualifications of the appointees so that they would merely have had specialized training in the two Army Extension Courses in Cryptography. The Commission held that if these persons could perform the duties, those to whom the extension courses were

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40. Ibid., Inclosure (Personnel Branch).

41. The Secretary of War, Attention: Director of Personnel from L. A. Moyer, Executive Director and Chief Examiner Civil Service Commission, 9 January 1941 (SPSIS-4A - Files of Chief of Personnel Branch).

42. Routing and Work Sheet to Colonel Stanley from SIS, Subject: Authority for Employment of Additional Personnel, 4-16-41 (SPSIS-4A - Files of Chief, Personnel Branch); The Secretary of War (Attention of Mr. A. H. Onthank, Director of Personnel) from Executive Officer, OCSigO, Subject: Appointments under Schedule A Subdivision, 16 April 1941.

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given should be selected from appropriate registers established through competitive examination.<sup>43</sup>

The Chief Signal Officer requested that the matter of changing the conditions of employment of Cryptographic Specialists be reconsidered since various factors rendered it unwise to employ the prospective personnel from the Civil Service register. Preference had to be given to persons who had a college education, with mathematics or the physical sciences as their major subjects. It was necessary, or at least highly desirable, that the employee be native-born, of American citizenship, and free from foreign connections. His parents also had to be either American-born or at least naturalized citizens. In addition, persons to whom employment was tendered had to be willing to take the two Extension Courses in advance for an average period of three months. Finally it was necessary that the personnel be employed as rapidly as possible.<sup>44</sup> On 16 May 1941 the Civil Service Commission approved the employment of the 150 Cryptographic Specialists on an exempted basis.<sup>45</sup>

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43. The Secretary of War, Attention: Director of Personnel from L. A. Moyer, Executive Director and Chief Examiner, Civil Service Commission, 24 April 1941 (SPSIS-4A-Files of Chief, Personnel Branch).
44. The Secretary of War (Attention of Mr. E. A. Wolitarsky, Office of the Director of Personnel) from Executive Officer, OCSigO, Subject: Appointments under Schedule A, Subdivision (5-2-41 (SPSIS-4A-Files of Chief, Personnel Branch)).
45. The Secretary of War, Attention: Mr. E. A. Wolitarsky, Office of the Director of Civilian Personnel from L. A. Moyer, Executive Director and Chief Examiner, 16 May 1941 (SPSIS-4A-Files of Chief, Personnel Branch).

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By 10 June 1941, therefore, the civilian authorization had been increased to 180. On that date, however, there were only 78 persons employed, with an annual payroll of \$152,860. Three months later, on 24 September 1941, the total number of civilian employees had increased to 99, distributed as follows: <sup>46</sup>

<u>Section</u>	<u>Total Civilians</u>	<u>Men</u>	<u>Women</u>
Administrative	24	13	11
Code Compilation and Distribution	9	2	7
Solution	65	38	27
School	<u>1</u>	<u>1</u>	<u>1</u>
	99	54	45

On 31 December 1941 there were 121 civilians in the Signal Intelligence Service. <sup>47</sup>

In addition to the initial qualifications required for the employment of civilian personnel, they were also subjected to rigid investigation of their character and loyalty. Persons not possessing these qualifications were relieved. <sup>48</sup> All personnel authorized to perform duties in connection with the secret cryptographic systems of the Army were required to be photographed. <sup>49</sup>

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46. Promotion Tables (SPSIS-4A-Files of Chief, Personnel Branch).
47. Ref, Memorandum for Chief, Army Communications Branch from Lieutenant Colonel R. W. Minckler, 5 February 1942 (SPSIS 319.1). On the day of the Pearl Harbor attack there had been 109.
48. Memorandum for Assistant Chief of Staff, G-2, from Chief Signal Officer, 22 April 1940 (SPSIS - Daily File).
49. Memorandum for Assistant Chief of Staff, G-2, from Chief Signal Officer, 25 May 1940 (SPSIS - Daily File).

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Upon the approval of the recommendation for expansion, 2 November 1939, the Signal Intelligence Service was assigned an additional Regular Army officer and began to evaluate the qualifications of the Reserve officers for active duty. A sufficient number of these had been trained in the Signal Intelligence School either by tours of active duty during the summer or by completion of the Army Extension Courses in Cryptanalysis and Cryptography. In preparing the recommendation for expansion, a list of 39 Reserve officers who had been partially trained in cryptanalysis was compiled. The mobilization assignment of eight of these was to the Signal Intelligence Service, and 10 were to be assigned to the Signal Intelligence School on M-Day.<sup>50</sup>

Under the approved plans for expansion the Signal Intelligence Service was authorized nine Reserve officers to be called to active duty under the Thompson Act. This law, approved 30 August 1935, empowered the President "to call annually, with their consent, upon application to and selection by the War Department, for a period of not more than one year for any one officer", Reserve officers for active duty with the Regular Army in the grade of second lieutenant. The total called to active duty for the entire Army could not exceed 1000 at any one time. The Secretary of War was also authorized to select

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50. Memorandum for the Assistant Chief of Staff, War Plans Division, 14 September 1939 (AG 321.924 (9-14-39)) appendix C.

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annually, beginning 1 July 1936, 50 officers to be commissioned in the Regular Army.<sup>51</sup>

The Adjutant General requested that the names and pertinent data of the Regular Army officer to be assigned as Assistant to the Officer in Charge of the Signal Intelligence Service and of the nine Reserve officers to be called to active duty be supplied to his office.<sup>52</sup>

Nevertheless, the plan for calling these Reserve officers to active duty to undergo further training in cryptography was disapproved, and it was impossible to call any of them to active duty at that time.

Two of them, Mr. Leo Rosen and Mr. R. A. Dutton, were, however, employed as civilians, in positions where they could easily be called to active duty when the occasion arose.<sup>53</sup>

During the remainder of 1939 and the following year very few officers were assigned to the Signal Intelligence Service. Captain George A. Bicher and Captain Harold G. Hayes,<sup>54</sup> after June 1940, assisted the Officer in Charge of the organization, and two other Regular Army officers (Captain Harold Doud and First Lieutenant Earle

51. An Act to Amend the National Defense Act, Public Law No. 408, 74th Congress, (HR 6250) 30 August 1935, sec. 1, 2.
52. B&N to War Plans and Training Division from Colonel S. B. Akin, 4-10-39 (SPSIS - Daily File).
53. 1st Ind. to Second Lieutenant Joseph J. Martan, Signal Reserve, from Colonel S. B. Akin, 14 November 1939 (SPSIS - Daily File).
54. Both of these officers, now colonels, served overseas during the War and later returned to the Signal Security Agency.

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F. Cook)<sup>55</sup> were assigned as students in the Signal Intelligence School in August 1940. In addition, three Reserve officers were called to active duty, and one civilian employee was released from his Civil Service status to return as a Reserve officer. First Lieutenant Joseph J. Martan,<sup>56</sup> who had had two weeks of active duty as a Reserve officer in 1937 and had anticipated being called to active duty in 1939, finally reported to the Chief Signal Officer on 1 March 1940. The former civilian employee, First Lieutenant Leo Rosen,<sup>57</sup> reported as a Reserve officer on 2 October 1940, and Second Lieutenant Verner C. Aurell,<sup>58</sup> a Japanese specialist and former officer in the Military Intelligence Reserve, reported five days later. One other officer, First Lieutenant Paul W. Albert,<sup>59</sup> Signal Reserve, reported in December.<sup>60</sup>

During 1941, 35 officers, including Reserve officers called to active duty, were assigned to the Signal Intelligence Service. The

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- 55. Both these officers, now colonels, served in the Signal Security Agency before going overseas.
  - 56. Major Martan served in signal intelligence activities both at Arlington Hall and overseas.
  - 57. Lieutenant Colonel Rosen served as Chief, Equipment Branch, throughout the War.
  - 58. Lieutenant Colonel Aurell served as Chief, Language Branch, throughout the War.
  - 59. Major Albert served in Australia.
  - 60. Data on all these officers was gleaned from their SPSIS 201 files.

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number assigned each month up to 7 December 1941 was as follows:

January	3	May	2	September	4
February	1	June	2	October	3
March	6	July	3	November	1
April	3	August	6	December	1

Included in this group were three Regular Army officers: Lieutenant Colonel Rex W. Minckler,<sup>61</sup> transferred from the Military Intelligence Division, 7 June 1941; Captain Eric H. F. Svensson,<sup>62</sup> Cavalry, transferred 26 July 1941; and Captain Harold McD. Brown,<sup>63</sup> who was relieved from his command with the detachment of the Second Signal Service Company at Fort Monmouth. Four second lieutenants had been enlisted men with the Second Signal Service Company and were already thoroughly conversant with the work: Second Lieutenants Walter E. Trimble, Oscar Wilder Jr., Robert F. Pope, and Braxton E. Small.<sup>64</sup> Four other employees of the Signal Intelligence Service were called to active duty as Reserve officers: Captain Abraham Sinkov,<sup>65</sup> Captain Solomon

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61. Colonel Minckler served at Arlington Hall Station until 1942, when he became Commanding Officer, Vint Hill Farms Station.
  62. Colonel Svensson served with the SIS until November 1942.
  63. Colonel Brown served first as Chief, Communications Branch and later overseas.
  64. These four all served with the Signal Security Agency or with the Battalion during the War.
  65. Throughout the War Colonel Sinkov served with Central Bureau, Brisbane.

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Kullback,<sup>66</sup> First Lieutenant H. L. Clark,<sup>67</sup> and First Lieutenant Herrick F. Bearce.<sup>68</sup> Two of the other Reserve Officers (Major A. J. McGrail<sup>69</sup> and Captain John B. Mathews)<sup>70</sup> had served periods of active duty during the summer with the Signal Intelligence Service. One, Lieutenant Robert W. Adams, was a former IBM salesman. The remaining officers had been trained in the cryptographic specialty either at the University of Illinois or through extension courses.

The oldest civilian employee of the Agency, Mr. William F. Friedman, who had been Chief, Signal Intelligence Service from its founding until the appointment in August 1935 of a Regular Army Officer in Charge (Major Haskell Allison), and who had remained thereafter as Principal Cryptanalyst, was called to active duty as a lieutenant colonel in December 1940. But serious illness and hospitalization, resulting from over 20 years of arduous work in his field, forced his reversion to inactive status when, in April 1941, the Surgeon General declared him to be permanently physically incapacitated for active service. He nevertheless returned at once to duty in a civilian capacity and throughout the War served as Director of Communications Research, a position he still holds in the Army Security Agency.

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66. Colonel Kullback was Chief, Military Cryptanalytic Branch.  
 67. Lieutenant Colonel Clark served with Central Bureau, Brisbane.  
 68. Lieutenant Colonel Bearce served at Arlington Hall and overseas.  
 69. Lieutenant Colonel McGrail served as Chief, Laboratory Branch until his untimely death on 30 April 1945.  
 70. Lieutenant Colonel Mathews served at Arlington Hall until 1943.

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The distribution of the officers on 10 October 1941 was as follows:<sup>71</sup>

	<u>Signal Intelligence Service</u>		<u>Second Signal Service Company</u>	
	<u>Allotted</u>	<u>Actual</u>	<u>Allotted</u>	<u>Actual</u>
Lieutenant Colonel	1	1		
Major		1		
Captain	2	9	1	1
1st Lieutenants	16	15	3	
2nd Lieutenants	10	13		3

On 5 November 1941, the total number of officers assigned to the Signal Intelligence Service included 7 Regular Army officers and 37 Reserve officers, a total of 44 in all.<sup>72</sup>

D. The Expansion of the Training Program

The increase in the number of personnel authorized for the Signal Intelligence Service necessitated changes in the training program, and the prospect of greater expansion called for pre-employment training which would serve not only as a means of giving instruction in signal intelligence activities, but, in addition, would constitute a test of interest and skill in these activities, particularly in cryptography and cryptanalysis. For ten years the Signal Intelligence Service had planned for an emergency, and with that emergency imminent, the means of instruction devised were not only expanded to meet the increased

71. Chart of 10 October 1941 (SPSIS 320.3).

72. Roster of Officers of SIS, 5 November 1941 (SPSIS 210.3).

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need for training but they were also streamlined to train the urgently needed personnel more rapidly than ever before.

The work of the Signal Intelligence Service had always been so specialized that long periods of training were necessary to produce competent personnel. Further specialization and greater cooperation among the specialists now became necessary in more limited fields. The success of the preliminary training program, which was general and relatively superficial, depended less on the extent of the specialization in theoretical problems than upon the rapidity with which personnel could be trained in specific activities to meet problems in actual operations.

The most urgent need, therefore, lay in the expansion of the scope of the extension courses. Five courses in military cryptography and cryptanalysis had been developed for the training of Reserve officers, and these fulfilled adequately the needs of that training. Under Army Regulations 350-3000, par. 12, however, it was impossible to enroll three very essential categories of personnel, for which the extension courses were the most suitable method available.<sup>73</sup>

The most immediate aim was the training of civilian cryptanalysts who would be needed in the Office of the Chief Signal Officer in the event of war. The majority of those already employed were Reserve

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73. The Adjutant General from the Chief Signal Officer, Subject: Special Authorization for enrollment in cryptographic extension courses, 4 February 1939 (SPSIS 352.6) par. 1-2.

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officers who would have to be replaced when they were called to active duty on or before H-Day. Many patriotic civilians were interested in cryptography and cryptanalysis as avocations and could be trained to meet the need for replacements. Consequently, authority was requested to train a limited number of specially selected civilians by means of the extension courses.<sup>74</sup>

The Navy Department had requested that certain Naval Reserve officers specializing in cryptography be permitted to take the Signal Corps extension courses. While this request first was made for a specific officer, authority was needed not only to meet this specific case, but also to train other Naval Reserve officers in the future.<sup>75</sup>

A third category consisted of personnel in the Signal Corps itself. A cryptographic specialty for enlisted men of the first three grades, to which promotion was made by examination, had been established, and it was essential that candidates for appointment in this specialty should be permitted to take the extension courses upon the approval of the Chief Signal Officer.<sup>76</sup>

The enrollment of these selected civilians and enlisted men in the subcourses in Military Cryptography and Military Cryptanalysis was approved on 17 February 1939. Naval Reserve officers were to be

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74. Ibid., par. 3.

75. Ibid., par. 4

76. Ibid., par. 5.

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enrolled, provided the War Department was reimbursed for the cost of the material, \$5.00 for the several subcourses. Officers desiring to be enrolled were directed to submit their applications through the Navy Department to The Adjutant General. Each application had to be accompanied by a check or money order, if the students were required to pay for the material, or by a statement indicating the Navy Department procurement authority against which the cost should be charged.<sup>77</sup>

The increase in registration was rapid. The Annual Report of the Signal Intelligence School for the year ending 30 June 1939 indicated the following status of enrollment and subcourses completed by commissioned and enlisted men of the Regular Army (RA), the National Guard (NG), and the Officers Reserve (OR) and by civilians.<sup>78</sup>

The reader should not be misled by the fact that a larger number of persons are credited with having taken more advanced courses than the elementary: in many cases the students would have sufficient knowledge gained from outside experience to enable them to omit the more elementary courses in Cryptography.

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77. 1st Ind., The Chief Signal Officer from The Adjutant General, 17 February 1939 (SPSIS 352.6).

78. Army Extension Courses, Annual Report of Subcourse Compilation, Signal Intelligence School, School Year Ending June 30, 1939 (SPSIS 352.6).

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## SUBCOURSES COMPLETED

<u>Courses</u>	<u>Commissioned</u>			<u>Enlisted</u>			<u>Civilians</u>	<u>Total</u>
	<u>RA</u>	<u>NG</u>	<u>OR</u>	<u>RA</u>	<u>NG</u>	<u>OR</u>		
10-16, Elementary Military Cryptography	1	-	-	14	-	-	9	24
10-17, Advanced Military Cryptography	5	2	15	5	2	-	11	40
20-30, Military Cryptanalysis, Part I	4	1	12	4	-	-	8	29
20-31, Military Cryptanalysis, Part II	2	-	7	1	-	-	3	13
30-30, Military Cryptanalysis, Part III	2	-	-	1	-	-	-	3
<u>Total</u>	<u>14</u>	<u>3</u>	<u>34</u>	<u>25</u>	<u>2</u>	<u>-</u>	<u>31</u>	<u>109</u>

## SUBCOURSES PARTIALLY COMPLETED

<u>Courses</u>	<u>Commissioned</u>			<u>Enlisted</u>			<u>Civilians</u>	<u>Total</u>
	<u>RA</u>	<u>NG</u>	<u>OR</u>	<u>RA</u>	<u>NG</u>	<u>OR</u>		
10-16, Elementary Military Cryptography	-	-	-	34	-	-	7	41
10-17, Advanced Military Cryptography	3	1	16	3	2	-	2	27
20-30, Military Cryptanalysis, Part I	5	2	34	2	2	-	3	48
20-31, Military Cryptanalysis, Part II	7	3	26	1	-	-	4	41
30-30, Military Cryptanalysis, Part III	1	-	13	-	-	-	3	17
<u>Total</u>	<u>16</u>	<u>6</u>	<u>89</u>	<u>40</u>	<u>4</u>	<u>-</u>	<u>19</u>	<u>174</u>

Thus, by 30 June 1939, the total number of enrollments was 283, but far fewer different persons had taken one or more of the extension subcourses. The enrollment, however, became so heavy that it was not practical to include additional civilian students after 10 June 1940, and applications for enrollment were placed on a waiting list. Meanwhile, pending the possibility of reopening the courses to civilian applicants, the several corps areas were requested to investigate and ascertain whether or not the applicants were available for employment in the Signal Intelligence Service in the event of a major emergency. Even

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then it appeared probable that it would be necessary to restrict the courses to those civilians who were to be trained specifically for employment in the Signal Intelligence Service.<sup>79</sup> The enrollments by 30 June 1940 were as follows:<sup>80</sup>

## SUBCOURSES COMPLETED

Courses	Commissioned			Enlisted			Civilians	Total
	RA	NO	OR	RA	NO	OR		
10-16, Elementary Military Cryptography	-	-	-	25	-	-	32	47
10-17, Advanced Military Cryptography	2	1	24	14	3	-	21	65
20-30, Military Cryptanalysis, Part I	4	-	17	4	-	-	16	41
20-31, Military Cryptanalysis, Part II	6	1	9	3	-	-	17	36
30-30, Military Cryptanalysis, Part III	-	-	4	1	-	-	8	13
<u>Total</u>	12	2	54	37	3	-	94	202

## SUBCOURSES PARTIALLY COMPLETED

Courses	Commissioned			Enlisted			Civilians	Total
	RA	NO	OR	RA	NO	OR		
10-16, Elementary Military Cryptography	-	-	-	31	1	-	19	51
10-17, Advanced Military Cryptography	2	-	20	3	1	-	7	33
20-30, Military Cryptanalysis, Part I	4	3	27	9	3	-	11	57
20-31, Military Cryptanalysis, Part II	3	1	27	1	-	-	4	36
30-30, Military Cryptanalysis, Part III	6	1	21	2	-	-	10	40
<u>Total</u>	15	5	95	46	5	-	51	217

79. Signal Officer, Ninth Corps Area from Colonel S. B. Akin, Subject: Extension Courses, Military Cryptography, 10 June 1940 (SPSIS 352.6).

80. Army Extension Courses, Annual Report of Subcourse Completion, Signal Intelligence School, School Year ending 30 June 1940 (SPSIS 352.6).

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III. The Expansion of the Signal Intelligence Service

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The training of advanced Signal Corps students at the University of Illinois in the cryptographic specialty had been initiated in 1937, and during 1941 many of the graduates of these courses were called to active duty. Neither of the Signal Corps officers<sup>81</sup> on duty with the Reserve Officers Training Corps unit at the University of Illinois had had any formal instruction in cryptography and cryptanalysis, but they were assisted by the Signal Intelligence Section, Office of the Chief Signal Officer, which supplied prepared lessons in cryptanalysis at regular intervals in sufficient numbers to provide different work for each pair of students. Textbooks, pamphlets, and technical supplies were furnished in sufficient numbers to provide for all students. The Signal Corps officers in charge of this course believed that the instruction had been excellent. Instruction was organized so that each student might progress as rapidly as possible, and the students were conscientious in their cooperation. The fundamental cause for the success of the course, however, was attributed by these officers at Illinois to the "timely and appropriate assistance rendered by the personnel" of the Signal Intelligence Section, Office of the Chief Signal Officer.<sup>82</sup>

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81. They were given assistance also by a member of the Illinois Department of Biology, Dr. Evert Conder, who later became a member of the Signal Security Agency.

82. Chief Signal Officer from Professor of Military Science and Tactics, ROTC, University of Illinois, Subject: Cryptographic Course Instructional Assistance, 26 April 1939 (SPSIS 352.6).

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The University of Indiana also desired to establish a similar course in 1940-1941, but this was considered inadvisable since the University had no Signal Corps ROTC unit to supply a basis for the cryptographic instruction; the urgent necessity for training military personnel to fulfill mobilization requirements with respect to cryptographic activities had, as we have seen, caused the Chief Signal Officer to limit the enrollment in the subcourses to Signal Corps personnel including Signal Corps ROTC units.<sup>83</sup>

In July 1941 the Assistant Chief of Staff, G-2 approved the distribution of the text books and lesson assignment sheets, including problems and approved solutions, for the five subcourses and the translations of the works on cryptography by Gylden and Givierge to the Chinese Government. Permission was given for the translation of these documents into the Chinese language, but their classification was to be continued as "Restricted" and their distribution was to be limited to authorized official Chinese personnel.<sup>84</sup>

The plans for the training of the new personnel of the Signal Intelligence Service had already been formulated, while the recommendation for the expansion of the organization was still awaiting official approval. The training was conducted by the student officers

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83. Memorandum for Captain W. Preston Corderman from Colonel S. B. Akin, 10 December 1940 (SPSIS 352.6).

84. Major General Shih-Ming Chu from the Chief Signal Officer, 10 July 1941 (SPSIS 352.6).

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of the Signal Intelligence School. The course for cryptographic and cryptanalytic clerks covered the subcourse in military cryptography and the first two subcourses in cryptanalysis. In addition, instruction was given in the application and simple operation of IBM machinery in cryptographic and cryptanalytic activities. No time limit was placed on the completion of the courses.<sup>85</sup> The cryptographic courses were completed individually and the cryptanalytic courses were completed by teams of three or four persons. A competitive spirit was stimulated by the maintenance of the pertinent records in order "to get the most out of them in the shortest possible time".<sup>86</sup>

The course for cryptanalytic aides and junior cryptanalysts covered Military Cryptanalysis, Parts III and IV, and Code Problems 1 to 4b as designed for the Signal Intelligence School. The duties of the personnel in training were divided. Half of the day was devoted to studies and the remainder consumed in practical tasks in the accomplishment of the current work of the section. In the second phase of training, code manuscripts were read in galley and page proof, but no interference with the half day of study was permitted, however, until the courses were completed.<sup>87</sup>

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85. R&W, W. F. Friedman and Captain George A. Bicher to Colonel S. B. Akin, 6 October 1939.

86. Ibid.

87. Ibid.

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E. The Establishment of the Fort Hunt Intercept Station

A week before the directive of The Adjutant General, of 27 September 1939, which authorized the Chief Signal Officer to establish and operate a monitoring station at Fort Hunt, Virginia, the necessary arrangements had been concluded. Clearances from the agencies interested in that reservation (the National Park Service, the Secretary of the Interior, and the Park and Planning Commission) had been secured, so that the allotment of \$102,255 for the purchase of the necessary equipment made it possible to proceed immediately with the establishment of that station.<sup>88</sup>

Approval was given by the National Park Service for the intercept station to occupy the old hospital building at Fort Hunt. The Commanding General of the Third Corps Area was directed to make the necessary arrangements for the detachment of one officer and 26 enlisted men to mess with the CCG Company stationed at Fort Hunt. The 66th Infantry was directed to provide a reconnaissance car to the Chief Signal Officer for duty with this detachment. Messing arrangements were completed three days later, and the reconnaissance car was made available by the Commanding General, Fort George G. Meade.<sup>89</sup>

88. Memorandum for The Adjutant General from the Assistant Chief of Staff, Subject: Signal Detachment at Fort Hunt, Virginia (AG 321.924 (9-18-39)) Memorandum for Record.

89. The Adjutant General to the Commanding General, Third Corps Area, Subject: Signal Detachment at Fort Hunt, Virginia, 20 September 1939 (AG 321.925 (9-18-39)) 1st Ind; General Third Corps Area to Chief Signal Officer, 23 September 1939 (AG 321.924 (9-18-39)).

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The enlisted personnel for the operation of the new monitoring station at Fort Hunt was obtained from organizations stationed at Fort Monmouth. First Lieutenant Robert E. Schukraft was selected as the Officer in Charge of the intercept station.<sup>90</sup> The unit was scheduled to arrive at Fort Hunt 15 October 1939.<sup>91</sup>

F. Conclusion

To recapitulate, the Signal Intelligence Service had, during the period beginning with September 1939 and ending with the Pearl Harbor attack in December 1941, expanded its organization within the limits permitted by the several authorizations, but there was always a slight lag between an authorization and the fulfillment of its provisions by recruiting. The problem of finding competent persons for appointment was difficult, and since there was a high standard to be met in matters of loyalty and character, not all those who possessed the necessary competence could qualify.

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90. The Commanding Officer, Fort Monmouth from Executive Officer, OCSigO, Subject: Second Signal Service Company Detachment for duty at Fort Hunt, Virginia, 27 September 1939 (OCSigO 370.3 RID); Commanding General, Third Corps Area, thru Commanding Officer, Second Signal Service Company from First Lieutenant R. E. Schukraft, O.I.C. Subject: Repairs to Hospital Building for Signal Detachment, Fort Hunt, Va., 7 February 1940 (AG 321.924 (2-7-40)).
91. Commanding General, Third Corps Area from Executive Officer, OCSigO, Subject: Enlisted Detachment, Fort Hunt, Virginia, 2 October 1939 (OCSigO 320.3 RID).

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The result was that on the day of the Pearl Harbor attack the Signal Intelligence Service was composed of the following staff:

<u>Category</u>	<u>In Washington</u>	<u>In the Field</u>	<u>Total</u>
Officers	44	1	45
Warrant Officers	0	0	0
Enlisted Men	28	149	177
Civilians	109	0	109
<b>Total</b>	<b>181</b>	<b>150</b>	<b>331</b>

*most low level  
no officers in the  
field  
J. F. Schmitt (1942)  
at least 203 in P. Falls  
above 9:00 AM  
H. Brown*

Those in Washington were distributed among the various units as follows:

<u>Unit</u>	<u>Officers</u>	<u>Civilians</u>	<u>Total</u>
Administrative (A)	2	2	4
Personnel (A-1)	2	6	8
Tabulating (A-2)	1	15	16
Cryptanalytic (B)			
Japanese (B-1)	10	24	34
German (B-2)	1	15	16
Italian (B-3)	2	6	8
Mexican (B-4)	1	7	8
Traffic (B-5)	5	2	7
Cryptographic (C)	16	10	26
Laboratory (D)	4	0	4
<b>Total</b>	<b>44</b>	<b>87</b>	<b>131</b>

To the foregoing table should be added a total of 22 civilians who were either typists employed in the Stenographic Unit (B-5), for which exact figures are no longer available, or were students in the school as yet unassigned to an operating unit, and 28 enlisted men, members of the Second Signal Service Company, who performed duties in one or another of the operating units. Thus, a complete tabulation of all personnel becomes as follows:

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Personnel accounted for in the preceding table	131
Civilians unassigned and in B-5	22
Enlisted men	<u>28</u>
Total	181

The activities which all these persons were carrying on before the War will be discussed in detail in connection with the work which the existing units, after wartime expansion had taken place, ultimately performed. At this point, however, it will be well to discuss the part played by the Signal Intelligence Service.

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~~TOP SECRET~~CHAPTER IV. THE SIGNAL INTELLIGENCE SERVICE FROM  
DECEMBER 1941 to JULY 1942A. Organization

When World War II broke out on 7 December 1941, the Signal Intelligence Service had reached, as the result of unprecedented expansions in recent years, a total strength of 331 officers, enlisted men, and civilians. Moreover, plans had been laid for further expansions looking ahead as far as the Fiscal Year 1943. So far as personnel alone was considered, the Signal Intelligence Service was thus better equipped at the beginning of World War II than the corresponding organizations in World War I had been at the time of their greatest expansion.<sup>1</sup> At that time, however, it was impossible to anticipate with any degree of accuracy the limits of the ultimate wartime expansions. That, before the defeat of the major Axis powers and their satellites could be accomplished, more than 26,000 officers, enlisted men and women, and civilians would be engaged in comparable work for the Army alone, to say nothing of Naval personnel and the corresponding forces of our Allies, no one realized. For every person at work in the Signal Intelligence Service on 7 December 1941 the Army ultimately employed 78 on V-J Day.

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1. Exact data no longer exists for the strength of all Signal Intelligence units in World War I. The maximum strength of MI-8 in November 1918 was 161 persons, while the Radio Intelligence Section, General Staff, in France had 80 officers and men. The Signal Corps Code Compilation Section had five or six persons; how many officers and men were in the Radio Intelligence Section, performing interception and radio-geometric tasks, is unknown, but the number can hardly have been very large.

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This enormous expansion was, of course, not immediate but gradual. Efforts were made to anticipate future needs and to prepare for them, but in the personnel field need was always considerably ahead of the supply.

On 27 December 1941 the Signal Intelligence Service was organized as a division of the Operations Branch, Office of the Chief Signal Officer, of which the chief was then Colonel Otis K. Sadtler. The Chief of the Signal Intelligence Service was Lieutenant Colonel Rex W. Minckler, with Mr. William F. Friedman as Civilian Assistant and Major Harold G. Hayes as Executive Officer; the staff was as follows:<sup>2</sup>

Administration (A)	Major Harold G. Hayes
Personnel (A-1)	Captain John B. Mathews
Tabulating (A-2)	First Lieutenant Robert W. Adams
Cryptanalytic (B)	Major Harold Doud
Cryptographic (C)	Captain Earle F. Cook
Laboratory (D)	Major A. J. McGrail
School	Sergeant Stanley A. Kretlow
Second Signal Service Company	Captain Robert D. Schukraft

When the Army Communications Branch (later the Army Communications Service) was activated on 1 January 1942 in the Office of the

2. This table of organization was compiled partly from personal testimony and partly from a document now missing, Organization SIS Division, 27 December 1941 (SPSIS-Daily File). There are notes from this document on file, but these present several historical problems not easily solved. In the first place the various units are described as "branches," a term not used until much later. Moreover, a reference to "2 Branch" appears in place of the Second Signal Service Company, whereas "3 Branch" was not created until the summer of 1942. The School is not mentioned at all. In any case the notes are consistent with the date of the missing document since early in 1942 the unit therein called A-2 was redesignated as B-8.

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Chief Signal Officer, the Signal Intelligence Service became a part of that Branch, a relationship which was maintained thereafter throughout the War, in spite of several changes of name.<sup>3</sup> At the same time the former A, A-1, and A-2 units were combined in a new Administrative Section similar to the old except that A-1 was now concerned with personnel problems, A-2 was the Signal Intelligence School, and A-3 the Tabulating Unit.<sup>4</sup>

The Cryptanalytic (B) Section was organized as follows under

Major Harold Doud:

B-1	Japanese	Major Eric H. B. Svensson
B-2	German	Captain S. Kullback
B-3	Italian	Captain A. Sinkov
B-4	French	First Lieutenant H. F. Bearce
B-5	Stenographic	Miss M. Louise Prather
B-6	Traffic	Captain Robert E. Schukraft
B-7	South American	First Lieutenant Leroy M. Glodell

Note that in this list Captain Schukraft, who was also at that time the Commanding Officer of the Second Signal Company, appears as head of one of the units of the Cryptanalytic Section.<sup>5</sup> The Cryptographic

(C) Section was organized under Captain Earle F. Cook, as follows:

3. Office Memorandum No. 170, OCSigO, 26 December; Courtney R. Hall, Development of the Office of the Chief Signal Officer, part I, 1917-1943, p. 133, fig. 27.
4. Descriptive Chart (7 February 1942), SPSIS 320.21.
5. The history of the various units will be found in other volumes of this History.

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C-1	Administration	Captain Paul W. Albert
C-2	Production	Captain M. B. Rada
C-3	Accounting	First Lieutenant H. G. Hilcken
C-4	Distribution	First Lieutenant W. L. C. Williams
C-5	Security	Mr. Vernon B. Cooley
C-6	Maintenance	First Lieutenant Oscar Wilder, Jr.
C-7	Service Shop	First Lieutenant Leo Rosen

The Laboratory (D), under Major A. J. McGrail, was not subdivided into smaller units. It was charged, nevertheless, with two separate functions: (1) the preparation, detection, and solution of secret inks and (2) providing photographic facilities.

B. Warline Expansion

The first record of a request for additional personnel subsequent to the Pearl Harbor attack is contained in a recommendation dated 7 February 1942 for allotment of additional officers, to include "all military personnel considered necessary" for existing as well as future needs.<sup>6</sup> There were at that time 43 officers on duty. This figure, owing to the creation of overseas services,<sup>7</sup> represented a decrease of six since 1 January 1942. The existing allotment had been based on an estimate made prior to the War, and it was advisable to provide for greater expansion than had been contemplated. Since it had become

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6. Draft Memo to the Chief Signal Officer, Subject: Authorized Allotment of Officer Personnel, SIS, 7 February 1942 (SPSIS 320.21).
  7. R&W Memorandum for OIC, Operations Branch, OCSigO, from Lieutenant Colonel Rex M. Minckler, 1 January 1942, R&W Memorandum for OIC, Army Communications Branch, OCSigO, 5 February 1942 (SPSIS 319.1). The 44 officers on duty on 7 December 1941 had been increased in the same month to 49.

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increasingly difficult to obtain deferment for male civilian employees, the aim was therefore to procure (1) military personnel, (2) female civilians, and (3) males who had been classed by Selective Service as 4-F. It was at that time estimated that a total force of about 460 persons would be required.<sup>8</sup>

In the early days of the War the Chief Signal Officer had a policy of replacing military personnel in his office by civilians, so as to make the military personnel available for assignment elsewhere. The effect of this policy upon operations of the Signal Intelligence Service would, it was feared within the Service itself, be highly unfavorable, and an effort was made to exempt military personnel in the Signal Intelligence Service from the provisions of the policy<sup>9</sup> by increasing, rather than decreasing, the number of officers. It was asserted that, while in many capacities civilians could be employed primarily for technical and clerical duties and these civilians would constitute a permanent War Department staff not subject to overseas assignments, it was essential that the Signal Intelligence Service be organized on a military basis so that it would be able to supply on short notice a comparatively large number of military personnel for special field service. If major efforts were made in more than one theater, a competent

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8. Draft Memo to the Chief Signal Officer, 7 February 1942.

9. Memorandum for OIC, Army Communications Branch, from Lieutenant Colonel R. F. Minckler, Subject: Organization of Signal Intelligence Service, 25 February 1942, par. 2a.

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signal intelligence service would be needed in each case. While certain of the responsibilities of the Signal Intelligence Service in Washington could then be delegated to the field echelons, the necessary training to establish the latter could not be accomplished at once.

Moreover, many of the officers who had been assigned to signal intelligence duties were not trained for other Signal Corps assignments but had been specially selected because their education, experience, and aptitude fitted them for assignment to the Signal Intelligence Service. Consequently, a reduction of the military personnel in the Signal Intelligence Service for immediate assignment to other duties would harm the Service and not benefit the Signal Corps as a whole. Competent civilians could not easily be obtained to replace key military personnel, and some of the officers who might be transferred elsewhere were among the most skilled and most highly trained of the entire staff.

As a result of these and other considerations, it was requested that 90 officers and 176 enlisted men be authorized for assignment in the Signal Intelligence Service,<sup>10</sup> and on the same day a request for an additional 115 civilian employees was also submitted to the Civilian Personnel Division.<sup>11</sup> The Chief Signal Officer two days

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10. Ibid., par. 3.

11. EW to Civilian Personnel Division from Lieutenant Colonel R. W. Minckler, 26 February 1942 (SIS-Daily File).

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later forwarded the request for the expansion of civilian personnel to the Assistant Chief of Staff, G-2. The 115 new persons were to be trained as technical specialists, as cryptographic clerks, and as tabulating machine and punch machine operators. The request, which had already been authorized under the blanket approval of the expansion of the Signal Intelligence Service by The Adjutant General on 2 November 1939, was approved by the Assistant Chief of Staff, G-2 on 11 March 1942.<sup>12</sup>

Thus far the wartime expansions proposed had been moderate in scope and were for the most part merely a carrying out of the plans which had been prepared during the period of peace. The month of March 1942, however, marked the beginning of a new phase. Henceforth, the rate of expansion was to greatly accelerated. As the result of informal conversations between Brigadier General Frank E. Stoner (the new Chief of the Army Communications Branch), Colonel Carter W. Clarke (Military Intelligence Service), and Lieutenant Colonel Rex W. Minckler (Signal Intelligence Service), during which were discussed the wider aspects of the expansion necessary for the proper performance of the duties entailed by war, the Chief of the Military Intelligence Service issued a memorandum to the Chief Signal Officer on 28 March 1942. This was intended, as was specifically

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12. Memorandum to the Assistant Chief of Staff, G-2, from the Chief Signal Officer, Subject: Signal Intelligence Service, 28 February 1942 (AGO 230 (2-28-42)).

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stated, to be a "warning order" so that the necessary plans, both technical and administrative, could be prepared and "the tremendous expansion of your Signal Intelligence Service" could be initiated.<sup>13</sup>

Cryptographic communications, intercepted by the Second Signal Service Company, were to be processed completely, translated, and the information supplied to G-2. Priorities for the interception and processing of traffic were established as follows:<sup>14</sup>

1. German, Japanese, Russian, and Italian Army and Air Force traffic.
2. Japanese, German, Italian, and Russian Military Attache traffic.
3. Diplomatic traffic between the Axis capitals.
4. German administrative nets.
5. Vichy French traffic.
6. Japanese diplomatic traffic with neutrals.
7. German diplomatic traffic with neutrals.
8. All Russian traffic

In order to obtain this traffic, the Signal Intelligence Service was directed to use all existing stations and other available sources.

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13. Memorandum for the Chief Signal Officer from the Chief, Military Intelligence Service, Subject: Expansion of the Signal Intelligence Service, 28 March 1942 (SPSIS-1).
  14. How revolutionary this list of priorities was will be understood when it is remembered that at this time the Signal Intelligence Service was operating under G-2 directives prescribing crypt-analytic study of the diplomatic traffic of Japan, Germany, Italy, Mexico, France, and a few South American countries.

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In addition, a large intercept station was to be established on the Eastern Seaboard near Washington, D. C. and a second on the East Coast. Secondary stations were to be established in Alaska for Japanese Army traffic and in Iceland for German Army traffic. The two primary stations were to be permanent and to be so planned and constructed as to permit a reasonable expansion of their intercept facilities. Construction was to be expedited and undertaken with the greatest secrecy.

As a security precaution, for the protection of the Signal Intelligence Service from bombing or the attentions of enemy agents, it was recommended that the organization be moved from the Munitions Building to some location outside the City of Washington. The site selected should not be more than an hour and a half by automobile from Washington, and, if practicable, should be "in the immediate vicinity" of the Eastern Primary Monitoring Station.

It was also recommended that the Signal Intelligence Service should establish a special Security Section, the sole duty of which would be "to insure the security of our own cryptographic material and systems." In accomplishing this mission, the Signal Intelligence Service would undertake the additional duty of monitoring our own fixed and field radio circuits. Reports would be made to G-2 in regard to all unauthorized transmissions which might compromise our own cryptographic systems or provide the enemy with information relating to our own forces.

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The Code Compilation Section was expected to give special attention to providing the Army with the most secure cryptographic material compatible with speed of operation and adaptability to field conditions and to field forces. Attention would early be given to development and procurement of short-distance direction-finding equipment for task forces and field armies. It was contemplated that the War Department would concentrate its efforts on short-distance equipment, while those agencies vitally concerned would develop the necessary long-range equipment. Additional Radio Intelligence companies were to be activated as necessary for assignment to task forces and armies.

About three weeks later (18 April 1942) the Chief Signal Officer received from The Adjutant General formal authorization for the expansion of the Signal Intelligence Service. The official order was essentially the same as the warning order with the exception that, in addition to the traffic already mentioned, subsections were to be devoted to Spanish, Balkan, Swedish, Finnish, Turkish, and Iranian traffic. The priorities approved were the same as those given in the earlier order with the exception of the omission of Russian traffic. That the processing of cryptographed traffic should be completed as soon as the codes and ciphers were solved was particularly emphasized. This was to include not only material currently intercepted but all back-logged traffic as well.<sup>15</sup>

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15. Memorandum for the Chief Signal Officer from The Adjutant General, Subject: Expansion of the Signal Intelligence Service, 18 April 1942 (AG 320.2 (4.18.42) MG-b), par. 2, 6-7.

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While these provisions were nearly the same as those given in the warning order, an entirely new paragraph directed cooperation with the British. This collaboration had, in fact, been in progress for about a year; the present reference to the topic confirmed the status quo, but no collaboration with any other foreign government was to be undertaken without specific authority in each case.<sup>16</sup>

Meanwhile, in compliance with the original warning order, steps had been taken to obtain and train additional personnel and to establish adequate facilities to provide the increased service as soon as possible. Plans for the establishment of new intercept stations were already being considered. The acquisition of the large CAA receiving station south of San Francisco was contemplated. It was equipped with modern receiving equipment and would provide the maximum efficiency and reception for the interception of Japanese and other desired traffic in the Far East. Steps had already been taken for the survey and establishment of an intercept station in Alaska to cover Japanese and Far Eastern traffic. The establishment of a large station on the East Coast would be coordinated with the organization of a second echelon of the Signal Intelligence Service.<sup>17</sup>

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16. For a full account of the establishment of collaboration with the British see volumes Two and Six.

17. Memorandum for the Assistant Chief of Staff, G-2 (from the Chief Signal Officer), Subject: Expansion of Signal Intelligence Service, 13 April 1942 (OCSigO 311.5.—Gen.) pars. 1-2.

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The location of an additional echelon of the Signal Intelligence Service outside Washington, to be composed of part of the activities, personnel, and equipment of the organization, was planned. It would function as the operating section; but if found advisable, all activities would be moved from the Munitions Building. The establishment of this echelon would provide space for a considerable portion of the new personnel.

By 1 May 1942 the organization of the Signal Intelligence Service to meet the increased responsibilities of the anticipated expansion had been given careful consideration. It was proposed by Colonel Frank W. Bullock, who had assumed command of the Signal Intelligence Service on 18 April 1942,<sup>18</sup> that the SIS should be reconstructed into a fully integrated, permanent establishment.<sup>19</sup> Brigadier General Frank E. Stoner, Chief of the Army Communications Branch, recommended approval of this proposal. He declared that the reorganization was made necessary by the directive of the Assistant Chief of Staff, G-2, which required approximately a 100 per cent expansion of the Signal Intelligence Service. Under the directive, two functional requirements (training and operations) would be established.<sup>20</sup>

18. Memorandum for SIS Personnel from Colonel Frank W. Bullock, 22 April 1942 (OCSigO 311.5-Gen.). par. 3; Office Orders No. 91 OCSigO, 18 April 1942.

19. Memorandum for the Chief Signal Officer thru Chief Army Communications Branch, from Colonel Frank W. Bullock, 1 May 1942 (OCSigO, 311.5-Gen.).

20. Ibid., 1st Memo. Ind., 5 May 1942.

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Under the proposed reorganization, the Officer in Charge (Colonel Bullock) would himself direct a Liaison Unit, while his Executive Officer supervised an Administrative Unit, a Supply Unit, and the Second Signal Service Battalion. The remaining were divided between an Operations Division and a Training Division, with a Research Committee assisting both. The Operations Division consisted of four sections: Security, Cryptanalysis, Cryptography, and Secret Inks. The Training Division also consisted of four sections: Foreign Languages, Cryptanalysis, Cryptography, Security. The plan was immediately approved by the Chief Signal Officer with two minor exceptions,<sup>21</sup> and Lieutenant Colonel Rex W. Minckler was designated as Assistant Officer in Charge.

On 22 June 1942, however, the organization was again changed. The name "Signal Intelligence Service", which had been used since 1930, was changed to "Signal Intelligence Service Division", and this consisted of three Branches: Operations Branch, Supply Branch, Cryptographic Training Branch.<sup>22</sup> Three weeks later the Signal Intelligence Service Division became the Signal Security Division, which then consisted of two branches: Cryptographic Supply Branch and Cryptographic Operations Branch.<sup>23</sup>

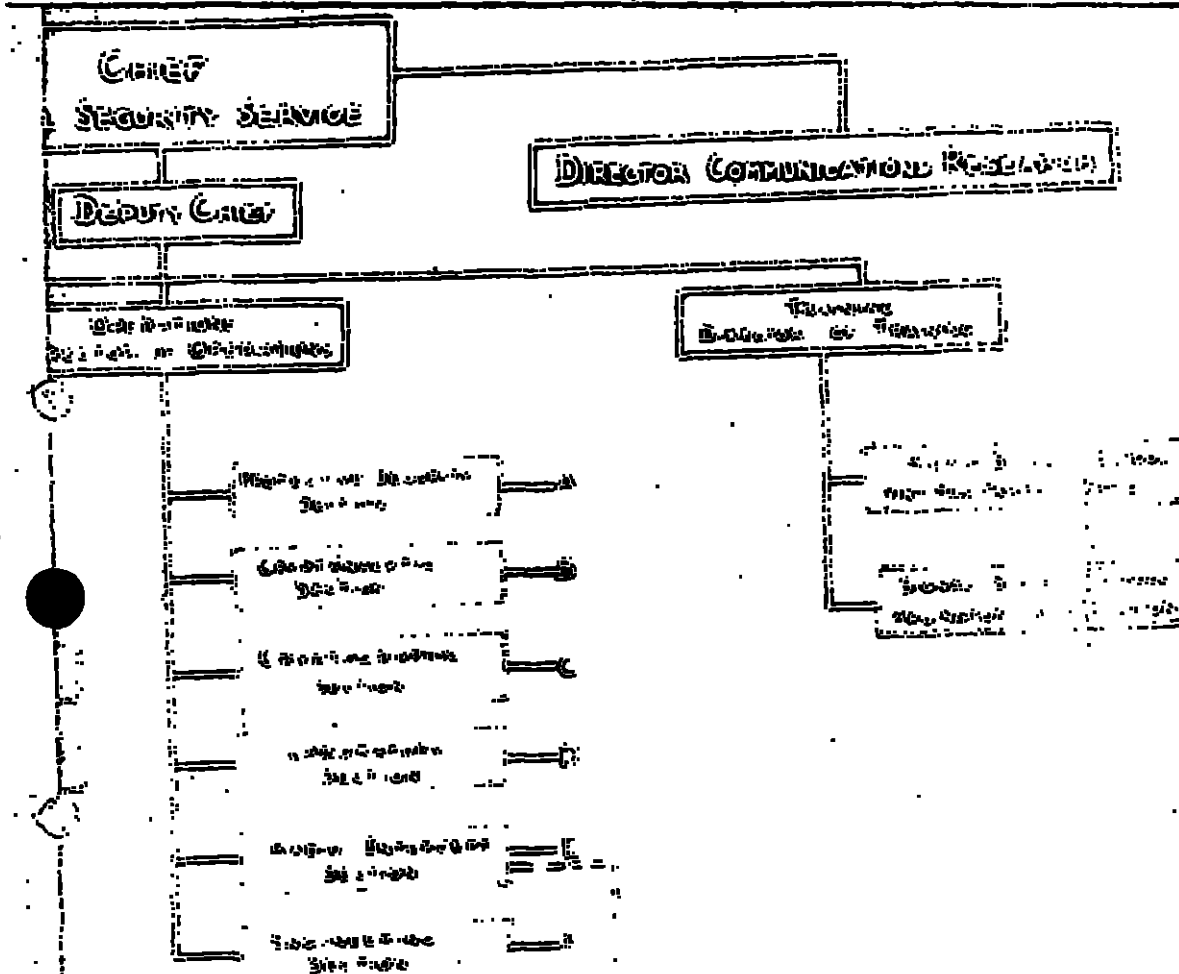
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21. The word "Chief" in the plan was changed to "Officer in Charge"; "Deputy Chief" to "Assistant Officer in Charge".

22. Office Memorandum No. 142, OCSigO, 19 June 1942.

23. Office Memorandum No. 168, OCSigO, 13 July 1942.

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Meanwhile, in fulfillment of the approved authorizations, the personnel of the Signal Intelligence Service had been slowly increasing. By 1 June 1942 it consisted of 102 officers and 237 civilian employees. A month later there were 121 officers and 364 civilians.<sup>24</sup> Yet on 24 June 1942<sup>25</sup> it was necessary to request an increase in the number of civilian positions authorized for the Signal Intelligence Service Division. On that date there were 250 positions authorized, and it was requested that 807 additional positions be allotted, making a total of 1,057. Though the request quadrupled the civilian staff, it was believed that it was fully justified by the directive of 18 April 1942. The total expenditure involved \$2,130,460, of which \$494,920 had already been authorized and \$1,635,540 had now to be requested.<sup>26</sup> On 10 July 1942, the authorization was approved by the Commanding General, Services of Supply.<sup>27</sup>

24. ~~MEM~~ Memoranda for Chief, Army Communications Branch, from Colonel Frank W. Bullock, 1 June 1942, 4 June 1942, 1 July 1942, and 2 July 1942 (SPSIS 310.1).

25. The reorganization of the Army on 9 March 1942 had placed the Office of the Chief Signal Officer under the Services of Supply, and additional civilian positions now had to be approved by the Commanding General of the Services of Supply.

26. Memorandum to the Commanding General, Services of Supply, from the Deputy Chief Signal Officer, Subject: Expansion of Signal Intelligence Service, 24 June 1942 (SPSIS 311.5--General).

27. 1st Ind. to above.

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From its origin the Signal Intelligence Service had been subject to the supervisory control of the Assistant Chief of Staff, G-2 in all matters relating to the production of intelligence and the preservation of security of our own communications. There were three reasons for this fact: (1) the dominant role played by the Assistant Chief of Staff, G-2 in all intelligence activities; (2) the fact that during World War I the production of information from intercepted communications had been a function of the Military Intelligence Division; and (3) the financial support which the Assistant Chief of Staff, G-2 had given at the time of the formation of the Signal Intelligence Service in 1929-1930.

This control was, on 15 May 1942 consolidated under the direction of a single officer, and Colonel Carter W. Clarke was appointed as the representative of the Assistant Chief of Staff, G-2 to supervise all signal intelligence of the War Department and to handle and disseminate special material produced by and through these and similar activities. He was also directed to serve in respect to signal intelligence matters as liaison officer of the Assistant Chief of Staff, G-2 with the State Department, the Navy, the Federal Bureau of Investigation, the office of the Coordinator of Information, the Office of Facts and Figures, and the Federal Communications Commission. It was also Colonel Clark's responsibility to prepare or coordinate "all directives to the Chief Signal Officer on signal intelligence matters" and to provide

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"the supervision necessary to insure their accomplishment."<sup>28</sup>

" D. Relations with the Navy

The entrance of the United States into the War had increased the amount of diplomatic traffic between the Axis capitals and their representatives abroad and intensified our interest in the interception of that traffic. In peace time the Army and Navy, by unwritten, informal, and loose agreement, had shared the responsibility for intercepting and processing diplomatic traffic, and, from an initial lack of cooperation and coordination, close daily collaboration for this purpose had gradually developed between the signal intelligence organizations of the two services. The question of the division of the work had been raised at a time when the two services were collaborating and coordinating quite closely in interception but were competing in the exploitation of the intercepted material; no agreement for a permanent division of responsibility for processing could be reached. The rivalry between the services had reached a point where, whenever an important message was intercepted and read, each service would rush forward immediately to the White House a copy of the translation in an effort to impress the Chief Executive with the accomplishments of the signal intelligence facilities of the department which had translated the message. This competition was not only

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28. Memorandum to Colonel Carter W. Clarke, General Staff Corps, from Chief, Military Intelligence Service, Subject: Signal Intelligence Activities, 15 May 1942.

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unseemly but was a useless and costly duplication of effort as well. To end the situation, it was suggested by the Chief Signal Officer (then Major General Joseph O. Mauborgne) that <sup>29</sup> the Army and the Navy should share responsibility for processing the intercepted traffic on an alternate daily basis; that is, the Army would receive and process all intercepts bearing an even date of the month, the Navy, all those bearing an odd date. In this way it was believed that neither service would have an unfair advantage over the other from the point of view of number and value of the translations produced. The suggestion was accepted by the Navy (Admiral Noyes), and the arrangement lasted until 25 June 1942, though the arrangement was never satisfactory in operation. While each of the services possessed all of the traffic intercepted by both, it was expected to solve only that part of the traffic which was its responsibility and to translate only messages sent on the days assigned. It happened, however, that there were some technical and practical difficulties in carrying out the agreement, and, in addition to occasional duplication of translations, there was still a very real duplication of effort in that at a time of great scarcity of trained cryptanalytic personnel, both the Army and the Navy were maintaining diplomatic

29. The exact date on which the suggestion was made is unknown but General Mauborgne was Chief Signal Officer from 1 October 1937 to 30 September 1941. It is interesting to note that a similar "practical arrangement" was in effect between two signal intelligence organizations of the German Government, as was learned as a result of TICOM operations.

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\* This was the "cryptographic date" - that is, the date the message was intercepted - narrative statement of evidence (P. 36 of Pearl Harbor Smokey Mountain) Vol I, p. 36, testimony of Lt. Col. Lynn

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cryptanalytic sections for processing identical material—a duplication hard to justify. Had these two sections been amalgamated into one, there would have been not only an appreciable saving of personnel but also the incalculable advantage of having the necessary number of highly skilled experts concentrated in a single well integrated team, leaving the remaining experts free to work on problems requiring a considerable amount of skill and experience. <sup>30</sup>

Not only was the existing situation inefficient, but the prospective removal of the Signal Intelligence Service from Washington—the Navy had been given to understand that the new site would be at Frederick, Maryland—a plan afterward abandoned—would make it extremely difficult to maintain the necessary liaison. In addition, while at that time the Army was not occupied with Japanese military systems,<sup>31</sup> the Navy had more Japanese naval material than it could handle with its available personnel. In fact, as pressure for work on naval systems increased, the Army was asked to take over more and more of the work on diplomatic systems, a responsibility which was accepted in every case. But the Navy had a great deal more work on which it desired to concentrate: air and weather systems and, through

30. Memorandum to the Vice Chief of Naval Operations from Officer in Charge, OP-20-G, Subject: Cryptanalytical and Decryption Operations in Diplomatic Traffic, 25 June 1942 (SPSIS-1), pars. 1-3.

31. Though this is strictly true, the Army had formerly been studying Japanese military systems and was, of course, later able to make outstanding contributions to the progress of the War in precisely this field.

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its wartime control of the Coast Guard, surveillance of clandestine systems. Consequently, since neither service was satisfied with the status quo, the Navy signal intelligence service (OP-20-G) recommended that the Army, for the duration of the War, be permitted to take over all diplomatic work, making available to the Naval intelligence services translations of messages of interest to the Navy. \*

By verbal agreement, therefore, between the Officers in Charge of the two intelligence agencies, Commander John R. Hedman and Colonel Frank W. Bullock, the Signal Intelligence Service on 25 June 1942 assumed responsibility for all diplomatic traffic. This agreement, however, was merely the culmination of the process already referred to: the transfer was not instantaneous but gradual and had been in progress for a long time. It should be pointed out that the Navy had not conducted cryptanalysis of any diplomatic traffic except the Japanese, whereas the Army sections were at work at this time on German, Italian, French, Spanish, Portuguese, and Latin-American diplomatic traffic.

At about this time both services began to be disturbed by factual evidence and rumors of numerous agencies actually engaging in or about to undertake cryptanalytic operations. For reasons of security it was clear that some limitations ought to be placed upon work of this sort by governmental agencies. The next few paragraphs deal with this matter and tell how the limitation was accomplished.

In accordance with a directive contained in a Memorandum of the

\* See footnote 30

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President, signed at Hyde Park on 26 June 1939 (and addressed to the Secretary of State, the Secretary of the Treasury, the Secretary of War, the Attorney General, the Postmaster General, the Secretary of the Navy, and the Secretary of Commerce) the Directors of the <sup>(1)</sup> Federal Bureau of Investigation of the Department of Justice, of the <sup>(2)</sup> Military Intelligence Division of the War Department, and of the <sup>(3)</sup> Office of Naval Intelligence of the Navy Department were appointed as a committee to coordinate activities of these three agencies in "the investigation of all espionage, counter-espionage, and sabotage matters". These matters were to be controlled and handled solely by the agencies named. The committee, established as the Joint Intelligence Committee, with Rear Admiral T. S. Wilkinson, USN as Chairman, directed certain officials in the three agencies concerned to constitute themselves as an "Informal Standing Committee" to study the extent to which various governmental units were engaging in cryptanalytic activities and to submit recommendations for limitations thereof. The members of this Standing Committee were the heads of the three Intelligence Agencies, the Federal Bureau of Investigation, the Military Intelligence Service, and the Office of Naval Intelligence. The Standing Committee in turn appointed a subcommittee consisting of officials from the cryptanalytic units of the three agencies, together with representatives of G-2 and O.N.I. This subcommittee forwarded to the Joint Chiefs of Staff a report dated 20 June 1942 on "Limitation of Cryptanalytical Activities", the text of which (JCS 65) is as follows:

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1. The informal standing Committee, composed of the Heads of the three Intelligence Agencies, F.B.I., M.I.S., and O.N.I., has conducted a study of present and prospective cryptanalytical activities, in order to assure the maximum security and efficiency in the conduct of this essential work.

2. The Committee concludes, in the interest of secrecy, elimination of unnecessary duplication, and most efficient use of the limited number of talented personnel skilled in cryptanalysis, that this work should be controlled and undertaken by a minimum of agencies. In view of the fact that the Army, the Navy, and the F.B.I. now have large organizations well equipped for and capable of handling the processing of all the raw material currently intercepted, the Committee recommends that the processing of that raw material be limited to the three agencies aforementioned.

3. It is intended by the Committee that any and all necessary cryptanalytical work will be allocated among the three agencies named, so that the field can be satisfactorily covered.

4. In addition to the organizations named, it is understood that at present small cryptanalytical units exist in the offices of (1) Director of Censorship, (2) Federal Communications Commission, and (3) Coordinator of Information. It is possible that other Offices have installed or are contemplating cryptanalytical units.

5. In view of the range of the governmental agencies involved now, and possibly more in the future, it appears that Presidential approval of this recommended limitation will be necessary, and it is recommended that such approval be obtained.

Upon consideration of this recommendation the Joint Chiefs of Staff issued a directive, no copy of which is available except as quoted below. A conference of representatives of the Army, Navy, and FBI met on 30 June 1942 and later issued to the Joint Chiefs of Staff the following report:

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In accordance with your directive, a conference of representatives of the War Department, the Navy Department, and the Federal Bureau of Investigation was held on 30 June 1942, at which time the conference was advised of your directive which was as follows:

"That a committee be designated composed of one representative from each service to consider the entire field of cryptanalysis to assure themselves that the three services can cover the entire field, and having assured themselves that they could cover the entire field, to avoid duplication of effort by allocation of the cryptanalysis among the services of those types which the respective services are best qualified to undertake. Provision should be made for pooling of effort aside from this allocation whenever circumstances require. Consideration should be given to the formation of a standing committee to pass upon any questions of allocation or pooling of efforts which may arise from time to time."

A study was made of the entire field of cryptanalytical work for the purpose of determining whether the three designated agencies, i. e., the Army, the Navy, and the FBI, were able to handle all such work.

The survey of this field reflected that this work fell generally into the following classes:

1. Diplomatic
2. Enemy Naval Operations
3. Enemy Military Operations
4. (a) Western Hemisphere Glandestine  
(b) International Glandestine other than Western Hemisphere
5. Trade Codes
6. (a) Army Weather  
(b) Navy Weather
7. Domestic Criminal
8. Voice Broadcast
9. Cover Text Communications
10. Miscellaneous

After surveying this field, it was the unanimous opinion of this conference that all of this work could be adequately handled by the cryptanalytical sections of the three interested agencies.

A study was made by the conference with reference to the question of the allocation of this work, and the conference agreed on the following allocation:

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1. Diplomatic: Army<sup>31</sup>
2. Enemy Naval Operations: Navy
3. Enemy Military Operations: Army
4. (a) Western Hemisphere Clandestine: FBI-Navy<sup>32</sup>
- (b) International Clandestine other than Western Hemisphere: Navy
5. Trade Codes: To be assigned by committee<sup>33</sup>
6. (a) Army Keathar: Army
- (b) Navy Keathar: Navy
7. Domestic Criminal: FBI
8. Voice Broadcast: FBI<sup>34</sup>
9. Cover Text Communications: FBI<sup>35</sup>
10. Miscellaneous: To be assigned by committee.

32. The report bears the following note at this point: "The conference felt that there was sufficient material to occupy both FBI and Navy with reference to the handling of Western Hemisphere Clandestine work inasmuch as both are presently engaged in it and have a vital interest in the results. It was suggested that the duplication in this field be eliminated by agreement among the members of the committee to be appointed." In the margin in a penciled note by Mr. William F. Friedman: "Re 'Lifts' [obtaining of cryptographic material by stealth] FBI not to try any unless confer with Army and Navy first."

33. The report bears the following note at this point: "Inasmuch as this work involves the question of which agency possesses the proper library material applicable to the particular code, it was believed that these cases should be assigned by a standing committee, which committee should have in its possession the complete list of the code book material possessed by all three agencies." Mr. Friedman's penciled note: "Navy: Orange [Japanese], German, Italian; FBI: Spanish, French, Central and South American; Army: all others."

34. Mr. Friedman's penciled note: "to cooperate with FCC and Postal Censorship."

35. Mr. Friedman's penciled note: "to cooperate with Postal Censorship."

*\*A verbal agreement had been made between Cdr. Redman, USA, and Col Bulluck, USA on 25 Dec. 42 that this arrangement was by no means permanent & only covered normal diplomatic work at any time & particularly upon the cessation of hostilities.*

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The conference recommended that a standing committee composed of one representative from each of the three agencies (Army, Navy, FBI) be appointed, and it was recommended that the committee should be made up of the following officers:

1. Officer in Charge, Signal Intelligence Service of the Army;
2. Officer in Charge of the Radio Intelligence Section, Office of Vice Chief of Naval Operations;
3. Officer in Charge of the Technical Laboratory, Federal Bureau of Investigation.

This committee is to meet at frequent intervals for an exchange of information and for the purpose of eliminating any duplication and for the purpose of passing upon any questions of allocation or pooling of efforts which might arise from time to time.

For the War Department

Colonel Carter Clarke  
Colonel Frank W. Bullock  
Mr. William Friedman

For the Navy Department

Commander John R. Redman  
Commander John W. Wenger  
Lt. Comm. Alwin D. Kramer  
Lt. Comm. L. T. Jones<sup>36</sup>

For the FBI

Mr. E. P. Coffey  
Mr. D. M. Ladd

Upon considering this report, the Joint Chiefs of Staff made the following recommendation to the President on 6 July 1942:

In the interests of secrecy, elimination of unnecessary duplication, and most efficient use of the limited number of talented personnel skilled in cryptanalysis, it is believed that this work should be controlled and undertaken by a minimum number of agencies. As the Army, the Navy, and the

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36. The Coast Guard representative.

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Federal Bureau of Investigation, now have large organizations well equipped and capable of handling the processing of all the raw material currently intercepted, the Joint Chiefs of Staff recommend that these activities be limited to the three agencies mentioned. An agreement has been reached with regard to the allocation of this work between the Army, the Navy, and the Federal Bureau of Investigation.<sup>37</sup>

Two days later, on 8 July 1942, the President transmitted the memorandum from the Joint Chiefs of Staff to the Director of the Budget. He stated:

I am enclosing a copy of a memorandum received today from the Chief of Staff and the Commander-in-Chief of the U. S. Fleet. I agree with them. Will you please have the proper instructions issued discontinuing the cryptanalytical units in the offices of the Director of Censorship, the Federal Communications Commission and the Strategic Services. If you are aware of any other agencies having services of this character, will you please have these discontinued also.

On 25 August 1942 the Committee again met with the intent of discussing matters not completed at the earlier meeting. Those present were:

Army

Colonel Frank W. Bullock  
Colonel Alfred McCormack  
Mr. William F. Friedman

Navy

Commander A. D. Kramer  
Commander J. N. Wenger  
Commander L. T. Jones

FBI

Mr. E. P. Coffey

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37. Memorandum for the President from the Joint Chiefs of Staff, 6 July 1942 (SPSIS-1).
38. Memorandum from the Director of the Budget from the President, 8 July 1942 (SPSIS-1).

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Most of the business of this meeting concerned allocations affecting only the Navy and the FBI, but at the beginning Mr. Coffey stated the desire of the FBI to continue in the diplomatic field. When opposition was expressed by the Army and Navy representatives, Mr. Coffey did not press the matter further. The only other matter affecting the Army was a decision that each of the services would process any trade-code traffic sent in unenciphered form if it had the necessary book but that enciphered traffic of this type would be allocated as indicated above.

There are two separate accounts of this meeting, one of which was prepared by Mr. William F. Friedman and bears an attached slip with the following:

Memo for Cmdr. Wenger:  
 Herewith my minutes. Please don't hesitate to make any corrections. Might send me yours for comparison. Yours to be official. I want copies for file, Col. Clarke, & Col. Bullock.

F.

The other copy of the minutes was prepared by Commander Wenger, and, though differing in wording and in minor details, it presents substantially the same story as the former. A note in Mr. Friedman's handwriting dated 20 October 1944 is added to each version:

Note: The minutes of this Committee were submitted to higher authority (ONI & G-2) for approval of JIC but no action was ever taken by JIC or ONI or G-2 to approve. This per recollection by Wenger & myself.

The fact that the minutes of this meeting were never approved by higher authority is important because in 1945 there arose a

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controversy between the Army and Navy concerning two matters, one of immediate importance, the other of future interest. The first of these questions arose in connection with who should be responsible for the solution of two Japanese systems known as JN 180B and JBH, respectively. It was the Navy's contention that both of these systems fell within the sphere of the Navy's responsibility. A lengthy "Memorandum concerning JN 180B and JBH" was prepared by the Navy in which the history of the allocation of responsibility was reviewed, and the following facts concerning the point at issue were discussed.

1. In February 1945 a Navy liaison officer, in going through the unworked commercial files of the Signal Security Agency, came upon a certain backlog of some 2000 messages, unidentified by the Signal Security Agency, which seemed to resemble traffic of the Honshu Shipping Control System (JN 180), which the Navy had intercepted between September 1942 and February 1944.

2. The Navy, on the understanding that no precedent for the working of Japanese commercial traffic by the Navy was being set and that the traffic would be returned to the Army upon request, obtained the messages, solved the system, identified it as the successor to JN 180, and gave it the short title JN 180B.

3. The Navy then requested the current JN 180B traffic, whereupon the Army asked that the system be returned to it.

4. The Navy complied but stated that the system was naval in character and that it intended to press its claim that the exploitation of the traffic was a matter of Navy cognizance.

The solution of the system known as JBH was accomplished jointly by the Army and the British. The system was commercial and concerned shipping, but according to the Army was a low-grade diplomatic system.

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The contentions of the two services, as stated by the Navy memorandum, were as follows: both services were in agreement as to the validity of the basic allocation agreement of 30 June 1942, but the Army contended that the allocation of trade-code responsibility made on 25 August 1942 was not valid because the agreement of the Standing Committee was not approved by higher authority than the officers who signed it and that it was in 1945 too old to be acceptable, even if valid when made. The Navy took a more legalistic attitude and supported their contention by asserting that both JN 180B and JEH were concerned with shipping and hence were naval in character. On the other hand, the Army contended that JEH was a low-grade diplomatic system; that the Army should handle Japanese commercial traffic because it intercepted such traffic on circuits which also carry diplomatic material; and that, prior to solution, such traffic cannot be distinguished from diplomatic. Moreover, the Army had established an organization with trained personnel, had solved JEH in collaboration with the British, and was reading it currently. Even in the case of JN 180B, the Army contended that, since it was used between shore stations and was cryptographically different from JN 180, it was not naval.

The insistence of the Navy in respect to the two systems just discussed was motivated by considerations arising from the second question alluded to above and stemming from the fact that the minutes

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of the "Standing Committee" were never approved by higher authority. The problem was this: was Navy going to be disbarred from conducting cryptanalytic operations on diplomatic traffic after the War just because of the allocation made in June 1942? For how long was that allocation intended? The Navy contended, of course, that the allocation was to be effective only during the period of the War and that as soon as the Navy was in a position to re-engage in diplomatic cryptanalysis it was vital that it do so: Cryptanalytic continuity, training needs, technical progress, and so on absolutely required the Navy to conduct such activities since foreign naval traffic in peace time would not be sufficient to keep the Navy cryptanalytic unit in a state of readiness for efficient wartime operation. The Army tried, for a short time, to maintain the position that the allocation of diplomatic cryptanalysis to the Army was intended to be a more or less permanent allocation. This position was, however, not tenable,\* and not long after V-J Day steps were taken to bring the Navy back into the field of diplomatic cryptanalysis. By June 1946 joint collaboration and coordination <sup>was</sup> established on a formal and firm foundation.

E. Liaison with the State Department

As in the case of liaison with the Navy Department, liaison with the State Department in cryptological matters began long before World War II. Indeed, one of the plans which the Chief Signal Officer had

\* In view of a verbal agreement between Col. John R. Redman, USN and Col. Frank W. Bullback, USA, on 25 June 1942.

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made even before World War I was the preparation of an interdepartmental cryptographic system for use in communications between the State, War, and Navy Departments,<sup>39</sup> but this was never brought to fulfillment owing, in all probability, to a lack of funds. During World War I there was constant liaison with the State Department, and in the period from 1919 to 1929 the State Department supported financially, at times bearing the lion's share of the expenses, the solution activities carried on by MI-8 in New York City.<sup>40</sup> Following the closing of MI-8 in 1929, the State Department showed little interest in solution, and thereafter the earliest datable record of any collaboration between the War and State Departments on codes and ciphers is contained in a letter from David A. Salmon, Chief of the State Department Division of Communications and Records, dated 16 January 1934, in which he asked that Mr. William F. Friedman give assistance to the State Department in devising a permutation table for a new State Department code.<sup>41</sup> Such assistance was officially authorized and given.

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39. See the Annual Reports of the Chief Signal Officer to the Secretary of War in the years immediately preceding 1917.

40. See Historical Background of the Signal Security Agency, volumes Two and Three.

41. Documents cited in this section are all to be found in a folder marked "State" in the files of the Director of Communications Research.

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In 1938 the State Department was furnished instructions for the use of the Strip Cipher Device M-138. In the same year there was established a Subcommittee on State, War, and Navy Department Communications, which consisted of Rear Admiral G. F. Courtney (senior member), Mr. David A. Salmon, and Major W. O. Reeder, which met on 17 May 1938 with Mr. William F. Friedman, Commander L. F. Safford, and Lieutenant P. V. Mercer, as technical advisors. The main discussion involved establishment of coordinated terminology in regard to classification and priorities. An attempt was made to establish a system for interdepartmental communication, but this proposal met with objection on the part of the State Department representatives. At a later meeting, however, it was decided, inter alia, "to adopt a common cipher for interdepartmental communications between the State, War, Navy, and Treasury Departments," the last named department being included because of the necessity of communication with elements of the Coast Guard.<sup>42</sup> The Navy Department was to bear the chief responsibility for preparing the system.

This system, which was the War Department cipher device M-138A used with alphabets provided by the Navy, was ready early in 1939 and had the following distribution:

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42. Minutes of meeting of 24 May 1938.

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**Navy:** Commander-in-Chief, Asiatic Fleet  
Any ship in the Asiatic Fleet

**State:** The Department in Washington  
Ambassadors to China and Japan  
Consul at Kong Kong  
Eleven other consuls in China  
Four consuls in Japan

**War:** Commanding Generals, Overseas Departments  
Military Attachés  
Military Observers  
(for use with State Department only)  
Military members of international commissions  
GHQ when outside the continental limits

The next reference to interdepartmental liaison in the files is the letter, dated 18 May 1939, transmitting to the State Department for the information of Mr. Salmon and of Mr. J. Rives Childs (who had been Officer in Charge of Solution of German Military Ciphers at General Headquarters, American Expeditionary Forces, but was then of the State Department's Near Eastern Division) certain works on cryptography which had recently been printed by the Signal Intelligence Service.

In October and November 1939 Mr. Friedman compiled for the State Department a new permutation table for use with a State Department code then under preparation. The year 1941 must have marked still further interdepartmental liaison, for there is in the files a long memorandum, apparently dated 7 June 1941 on current State Department communications systems. The Secretary of State (Cordell Hull) had addressed a letter on 12 May 1941 to the Secretary of War (Henry L. Stimson), as follows:

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The Department of State is desirous of having made a most careful survey of its codes and ciphers to determine their efficacy at this time and to discover and establish additional means of preserving the secrecy of its highly confidential communications under present world conditions.

I wish to enlist the aid of the War Department in the conduct of the survey contemplated and I hope you may be in a position to designate a qualified commissioned officer of the War Department to serve in an advisory and a consultative capacity with officers of the Department of State, the Navy Department, and the Federal Bureau of Investigation for these purposes, the importance of which I believe I need not emphasize.

Your cooperation will be much appreciated.

Captain Harold G. Hayes was designated the officer mentioned, with Mr. William F. Friedman as technical advisor. Other members of the committee were Commander L. P. Safford, representing the Office of Naval Communications, Mr. W. G. Blackburn, of the Federal Bureau of Investigation, and Mr. Frederick Livesey, of the Department of State.<sup>43</sup> This committee met on 27 May and on 2, 9, and 12 June 1941 and submitted a seventeen page report, the provisions of which were designed to bring State Department cryptographic systems and communications security procedures into line with those of the

43. Mr. Livesey had been a lieutenant on duty in the Radio Intelligence Section, General Staff, General Headquarters, American Expeditionary Forces (see Historical Background of the Signal Security Agency, volume Two, pp.24, 180) and from 1919 to 1923 was the chief cryptanalyst and translator in MI-8 in New York (see ibid., volume Three, chapters II, III). With Mr. Childs, of whom mention has already been made, he was the most experienced cryptanalyst the State Department had on its staff. It must be pointed out, however, that neither then nor at any other time did the State Department have a cryptanalytic unit. It depended on the War and the Navy Departments for assistance of this kind.

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War and Navy Departments.

Among the provisions of the report just mentioned was one which recommended that the State Department replace, if possible, the slower hand-operated systems with cipher machines. On 28 June 1941 Mr. Sumner Welles, as Acting Secretary of State, requested the Secretary of War to supply to the State Department eight cipher machines. The designation of these machines is not mentioned, but from the estimated cost of approximately \$3,000 it is clear that the Converter M-13A was intended. The request was approved by the Secretary of War on 9 July 1941.

The Secretary of State on 22 June 1942 addressed a letter to the Secretary of War requesting the latter to transfer from the Office of the Chief Signal Officer an expert cryptographer (rating P-4) to serve with the State Department. This request was met by the Secretary of War with the suggestion, sent to the Secretary of State on 20 July 1942, that a single cryptographer would not be of much use, and that therefore a commissioned officer of the Signal Security Division be appointed instead to act as liaison officer between the two departments in cryptological matters. The advantage of this proposal would be that the State Department might then have the assistance of the entire staff of the Signal Security Division when occasion demanded. The result of this request was not, apparently, the designation of an officer from the Signal Security Division at this time. Instead the Army Communications Service supplied to

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the State Department one officer (Lieutenant De Beaulieu) with a team of about 12 enlisted men to operate the State Department Code Center.

In November 1942 the Joint Chiefs of Staff addressed the following letter to the heads of all non-military agencies using codes and ciphers in work: <sup>44</sup>

The ease <sup>45</sup> with which codes and ciphers of the non-military agencies of our enemies are being broken by our experts has raised the question in the minds of the Joint Chiefs of Staff as to the security of codes and ciphers used by similar agencies of our Government. The ability of our cryptanalysis experts to decode enemy messages has been our most valuable source of information. The Chiefs of Staff wish that you be informed of this, as a matter of great secrecy, in order to emphasize the importance of security in these matters. They feel that we must credit the enemy with having its experts who are just as capable as ours in cryptanalysis work. They are deeply concerned over the hazards to which our ships and troops may be exposed through the use of ineffective codes by various Governmental agencies.

The Joint Communications Board, an agency of the Joint Chiefs of Staff, has at its disposal the best cryptographic experts in the United States. The services of these experts can be made available to the State Department to analyze its codes and ciphers from the standpoint of security and to suggest methods for their improvement. It is hoped that you will make use of the services of these experts. This can be accomplished by communicating with the Secretary of the Joint Chiefs of Staff who will make the necessary arrangements.

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44. Letter signed by Brigadier General John R. Deane, Secretary, Joint Chiefs of Staff.
45. As an example of the sort of thing which is meant, we may cite the testimony given in August 1944 to the writer by Dr. Revilo P. Oliver, of the Portuguese-Brazilian Code Solving Unit, SSA. Dr. Oliver stated that on one occasion in the past a message sent from the U. S. Legation in Lisbon to Washington had been intercepted and misrouted to his unit. It was there examined by personnel of the unit who made considerable progress on its solution by cryptanalytic means before it was realized that the message was not Portuguese but American in origin!

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On 19 November 1943 a conference was held, attended by Mr. William F. Friedman, Major Charles H. Hiser, and Captain James G. Moak, of the Signal Security Agency, and by Messrs D. A. Salmon and Goldsberry, of the State Department. This conference met as a result of a letter from Edward R. Stettinius, Jr., Under Secretary of State, to Mr. G. Howland Shaw, Assistant Secretary, expressing the opinion that a survey of the State Department communications systems by Army personnel was desirable. Reference was made to the report of a previous survey made 26 June 1941, regarding which it appeared that "almost all<sup>46</sup> of the recommendations made therein have been carried out by the Department." Discussion of the report brought out that there was, however, much still to be done to put the State Department systems on an efficient and secure basis. At this point the question was raised as to whether the group was authorized to conduct the survey mentioned, and the decision of the meeting was that Mr. Salmon should prepare a letter for Mr. Stettinius' signature specifically asking for such a survey.

Instead, however, the Secretary of State signed the letter personally on 23 November 1943. After referring to the previous survey, of which "most of the recommendations were carried out either in whole or in part," the Secretary continued as follows:

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46. Mr. Friedman annotated this expression (on a routing slip to Colonel W. Preston Corderman attached to Captain Moak's minutes) as "too broad."

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The Department now desires to have a resurvey made and would greatly appreciate it if the Signal Security Agency of the Office of the Chief Signal Officer of the United States Army could undertake this task at an early date.

The Chief Signal Officer was directed to have the Signal Security Agency initiate at once the survey, and responsibility for it was ultimately placed on the Chief, C Branch and the Director of Communications Research, SSA. Accordingly, a committee consisting of Major Robert D. Brown, Captain James G. Douglas, and Captain James G. Moak called on Mr. Salmon on 1 December 1943 and, after making a thorough survey of the State Department systems in current use, submitted a preliminary report which made the following recommendation:

It is recommended that the Department consider the use of one-time pads for SECRET and CONFIDENTIAL vertical communications, particularly at important stations such as Stockholm where electrical cipher machines are not available. The Department does not now possess the necessary facilities for the production of such pads but it is believed that any expense for the necessary equipment and personnel would be justified by the attainment of absolute cryptographic security.

A longer report, submitted in both a summarized and a detailed form on 11 January 1944 was signed by Mr. Friedman, Major Brown, and Captains Moak and Douglas. These two reports, which are too long to summarize at this time, made recommendations for the improvement of the State Department communications systems and security procedures and were forwarded by the Secretary of War to the Secretary of State on 22 January 1944.

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In March 1944 the Secretary of State requested the Secretary of War to detail an officer to the State Department as Cryptographic Adviser to Mr. Salmon, then Special Consultant to the Assistant Secretary. As a result of this request Captain James G. Moak of the Signal Security Agency was transferred to the State Department on 11 May 1944. At about the same time the Secretary of State requested the Secretary of the Navy to detail an officer to the State Department as assistant to the Assistant Secretary on general security matters. Commander Lee W. Parke, USN was detailed to the State Department for this purpose. During the summer of 1944 Commander Parke, Major Moak, and Mr. Salmon drew plans for the establishment of a Division of Cryptography in the State Department and obtained the approval of the Bureau of the Budget for the project. On 20 September 1944 the Secretary of State issued Departmental order No. 1288 establishing the new Division, and on 20 December 1944 a Departmental Designation was issued appointing Commander Parke as Chief of the Division; Major Moak, Assistant Chief for Operations; and Mr. Salmon, Division Adviser. In July 1945 Major Moak was recalled to the Signal Security Agency for a new assignment and was replaced at the State Department by Major Robert S. Leshner. Major Leshner served in the Cryptographic Division until February 1946, when he reverted to inactive status and left the Department. Owing to personnel shortages at the Army Security Agency, no replacement for Major Leshner was available.

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In May 1944 the Secretary of State requested the Secretary of War to furnish the State Department approximately 1000 manually-operated cryptographic devices which would permit secure communication among all offices of the Foreign Service. In conferences between representatives of the two Departments it was agreed that the Signal Security Agency should furnish 1000 Converters K-325 (SIGFOY) for the purpose. Delivery of the machines began in July 1944, and by March 1945 the machine was in use at all posts of the Foreign Service. Concurrent with the development of the use of SIGFOY in the Foreign Service, the State Department, in agreement with the War and Navy Departments, began a program to supply all embassies and legations with an automatic cryptographic machine (the CSP 2200, which, though it bore a Navy designation, was an adaptation of the CCN) and all posts with one-time pad systems. This program was completed early in 1946. By May 1946, it was decided that the SIGFOY no longer met the operational requirements of the State Department, and it was withdrawn from use.

F. Liaison with the British

The history of the successes of the Signal Security Agency, particularly in the field of cryptanalysis,<sup>47</sup> but also to a more limited degree in the field of communications security,<sup>48</sup> was

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47. On these, see volumes Two and Three.

48. On this collaboration, see volume VIII.

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marked by a growing cooperation with the British cooperating centers. The basis of this cooperation was "a general, though secret, agreement between our Government and the British for full exchange of military information"<sup>49</sup> reached in the summer of 1940.<sup>50</sup> Early in August 1940 "exchange of information with the British . . . was approved," and a plan was formulated by which our technical experts here [in Washington] would formulate the questions on which they desired information and use the Military Attaché in London as a means of obtaining the answers.<sup>51</sup>

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49. Memorandum to the Chiefs of Arms and Services, "Information to be Obtained from Abroad," 29 August 1940, signed Robert P. Patterson, Assistant Secretary of War (copy now filed in Military Intelligence Division).
50. Prior to this time the Signal Intelligence Service had had no relations with its British counterpart except by the following instances. Some time before 1934 the Chief of the Signal Intelligence Service, acting on the assumption that the British must maintain such an organization (that the British had had well-established signal intelligence services in World War I was known by all who, like Mr. Friedman himself, had participated in such profitable liaison) attempted, through the U. S. Military Attaché in London, to obtain information concerning the British Civil Service examination for candidates for appointment to positions in this field. The attempt was successful, and a copy of The Pamphlet of Competition, printed in 1925, was received. On 20 September 1934 he requested the Attaché to obtain a copy of the examination, but this request was refused on the ground that the examination had not yet been given. Later, when Commander Denniston of GCCS visited the Signal Intelligence Service, as will shortly be described, he expressed surprise that the Signal Intelligence Service had been able to obtain this information.
51. Memorandum for the Chief of Staff, "Recommendation of General Strong regarding increase of personnel in London," 8 August 1940, signed Brigadier General Sherman Miles, Acting Assistant Chief of Staff, G-2.

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By 23 August this arrangement was in effect and plans were then being made for sending specialists abroad.<sup>52</sup> By the first of September such high-level decisions prompted a draft of a Proposed Exchange Basis with the British,<sup>53</sup> prepared by Colonel S. B. Akin and Mr. William F. Friedman. The document in question is of the highest interest:

## DRAFT

## PROPOSED EXCHANGE BASIS WITH THE BRITISH

A. CRYPTOGRAPHIC

Nothing of a secret or confidential nature to be disclosed but mechanics of such tactical cryptographic systems as the training editions of the division field code, cipher devices M-94 and M-138, Air-Ground Liaison Code and Air-Ground Fire Control Code may be exchanged. Specifically no information of any kind shall be transmitted to them with respect to the converter type M-134-A, B or C (CSP-888) nor should the existence or general principles of these machines be disclosed. There would be no objection to exchanging information with respect to the Hagelin machine known as type C-38.<sup>54</sup>

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52. Ibid. A discussion to take place on 30 August 1940 among the chiefs of Arms and Services "on the advisability of sending highly qualified civilian scientists and or . . . officers" abroad is recorded in a memorandum dated 29 August.
53. Both the original rough draft and the typed copy are now in the files of the Director of Communications Research. See also letter from Colonel Clyde L. Eastman to the Chief Signal Officer, 5 September 1940, ibid.
54. In the margin: "Safford agrees to this." This was a reference to the Chief of the Navy Code and Signal Section, then Commander L. S. Safford, USN.

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B. CRYPTANALYTIC

It is presumed that the discussion of an exchange for this material would take place in this office. It is recommended that we exchange any and all material that we have on a basis of complete reciprocity, the same to be upon specific exchange of specific items and not upon the basis of an exchange of information of a general character. It is further recommended that any attempt at exchange of cryptanalytic material only be undertaken in a joint conference between the Army and the Navy on the one hand and the British on the other. The fact should be kept in mind in this exchange that the British are not at war with Orange<sup>55</sup> and questions of policy enter into whether or not disclosure of vital information with respect to Orange would be detrimental to the National Defense.<sup>56</sup>

C. TRAINING MATERIAL

It is recommended that similarly an exchange of training literature on the subject of cryptography and cryptanalysis be made on a reciprocal basis.<sup>57</sup>

D. GENERAL CRYPTANALYTIC TECHNIQUE

It is recommended that there be a reciprocal exchange of information concerning mechanization and machinery for cryptographic procedures.<sup>58</sup>

E. EXCHANGE OF INTERCEPT TRAFFIC MATERIAL

An exchange of traffic so as to provide the widest possible coverage of material of interest would be desirable. It would be of especial value to us to have traffic of a tactical nature from the German, Italian, and Japanese armies.<sup>59</sup>

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55. Japan. As will be clear a little later, information on Japanese cryptanalytic activity was sent to the British in 1941.

56. In the margin: "Safford does not agree."

57. In the margin: "Safford questions advisability."

58. In the margin: "Safford opposes."

59. In the margin: "Safford does not oppose."

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From this memorandum it is clear that Colonel Akin and Mr. Friedman had already discussed the matter with Commander L. S. Safford of the Navy Code and Signal Section; that the latter was less willing to collaborate with the British than his Army colleagues, but that even they were by no means ready to recommend a full exchange of information. The memorandum, however, had not yet been submitted to the Chief Signal Officer, Major General Joseph O. Mauborgne, temporarily absent from Washington on a visit to Fort Monmouth, when an expedite radiogram for the Chief of Staff arrived in Washington from Major General George V. Strong, then in London. The text of this radiogram has not been located, but its contents are sufficiently known. What happened upon its receipt will best be understood from a letter written on 5 September 1940 to General Mauborgne by Colonel Clyde L. Eastman, then Executive Officer, which was as follows:

An expedite telegram for the Chief of Staff from General Strong (in London) has just been received by General Miles.<sup>60</sup> General Strong wants to know whether the Chief of Staff is willing to agree to exchange important Japanese, German, and Italian intercept traffic and complete technical information as to the cryptographic systems used therewith. General Miles has authorized sufficient delay to enable me to write and ask you for a statement of your views. He stated that he did not believe that he could, under the circumstances, await your return Sunday.

While the matter was under consideration, he directed that Akin take the radiogram to Admiral Anderson of Naval Intelligence for a statement of the Navy's views. Admiral Anderson told Akin to tell General Miles that the Navy's

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60. Brigadier General Sherman Miles, then Assistant Chief of Staff, G-2.

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"off-hand" answer to the whole project was an emphatic "NO." He said, however, that he would later provide General Miles direct with "a considered answer." Admiral Noyes<sup>61</sup> was present at the conference between Admiral Anderson and Akin. Admiral Noyes said very little, but was in seeming agreement with Admiral Anderson.

I am inclosing a copy of a memorandum that Akin and Friedman prepared and submitted to you several days ago. Commander Safford's comments, indicating the probable Navy attitude, are typed in the margin. It seemed possible that<sup>62</sup> you would like to have this for consideration at this time.

What answer was ultimately sent by the Chief of Staff to General Strong is unknown, but it is quite clear that during the next few months negotiations continued and the objections to collaborate were eliminated. A memorandum of the President to General Marshall is of interest:

THE WHITE HOUSE  
WASHINGTON

July 9, 1942

MEMORANDUM FOR  
GENERAL MARSHALL:

Some time ago the Prime Minister stated that our cipher experts of the United States and British Navies were in close touch but that he was under the impression that there was not a similar intimate interchange between our two Armies. I wonder if you could take this up with General Dill and let me know.

F. D. R.

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61. Admiral Noyes was Director of Naval Communications and was thus the superior of Commander Safford.
62. The inclosure has already been quoted in full. This reference to the memorandum in a document dated 5 September 1940 is the only means of dating it.

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The Chief of Staff evidently sent the memorandum to General Strong, by that time Assistant Chief of Staff, G-2, for the latter replied on the same date in the following memorandum:

July 9, 1942

Memorandum for: Chief of Staff

1. Reference is made to attached memorandum for General Marshall, dated July 9, 1942.

2. Intimate interchange of technical cryptanalytic information between the British and the American armies has been in progress for over a year, and appears to be quite satisfactory to both sides. Studies and conferences pertaining to a similar exchange of technical cryptographic information to facilitate communication among the American Army on the one side and the RAF and the British Army on the other side in all echelons have been in progress for about three months, and will be completed very soon. If interchange of similar material appears to be more advanced between the British Navy and the American Navy, it is because actual intercommunication between these two services has been necessary for a much longer period of time.

George V. Strong  
Major General  
Assistant Chief of Staff,  
G-2

It should be noted that at this date (July 1942) exchange of cryptanalytic material had been in progress for more than a year, as will shortly be described. Exchange of cryptographic material, however, was on a much more limited basis. Early in January a policy in this regard was established, as will be noted in the following extract:<sup>63</sup>

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63. See letter of Chief Signal Officer to Officer in Charge, War Plans and Training Division, Office of the Chief Signal Officer, 15 January 1942, from which the quotation is taken.

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The details of the cryptographic methods employed for high command communications should preferably not be divulged to allied powers, nor is it believed to be mutually advantageous for an exchange of information between allied powers on such cryptographic methods. Complete interchange of field codes and ciphers is frequently of value, particularly when deciding upon the selection of a system for joint use. It is believed that such an exchange between the United States and the United Kingdom has taken place. However, it is definite that no interchange of information reference high command cryptographic methods has taken place here in Washington. The Navy Department advises that the same policy is in effect both here and in London. It is believed that the United States military and naval representatives in London should again be advised that no such interchange of information has been made here nor is it contemplated, and that no interest should be exhibited on their part to inquire into the British high command cryptographic methods.

Further details on the subject of liaison in the cryptographic field will be dealt with in volume Eight. At this point it is sufficient to state that liaison in the cryptanalytic field was practically unreserved and unlimited; in the cryptographic field it was limited by considerations dictated by the need for national security as viewed by the American high command.

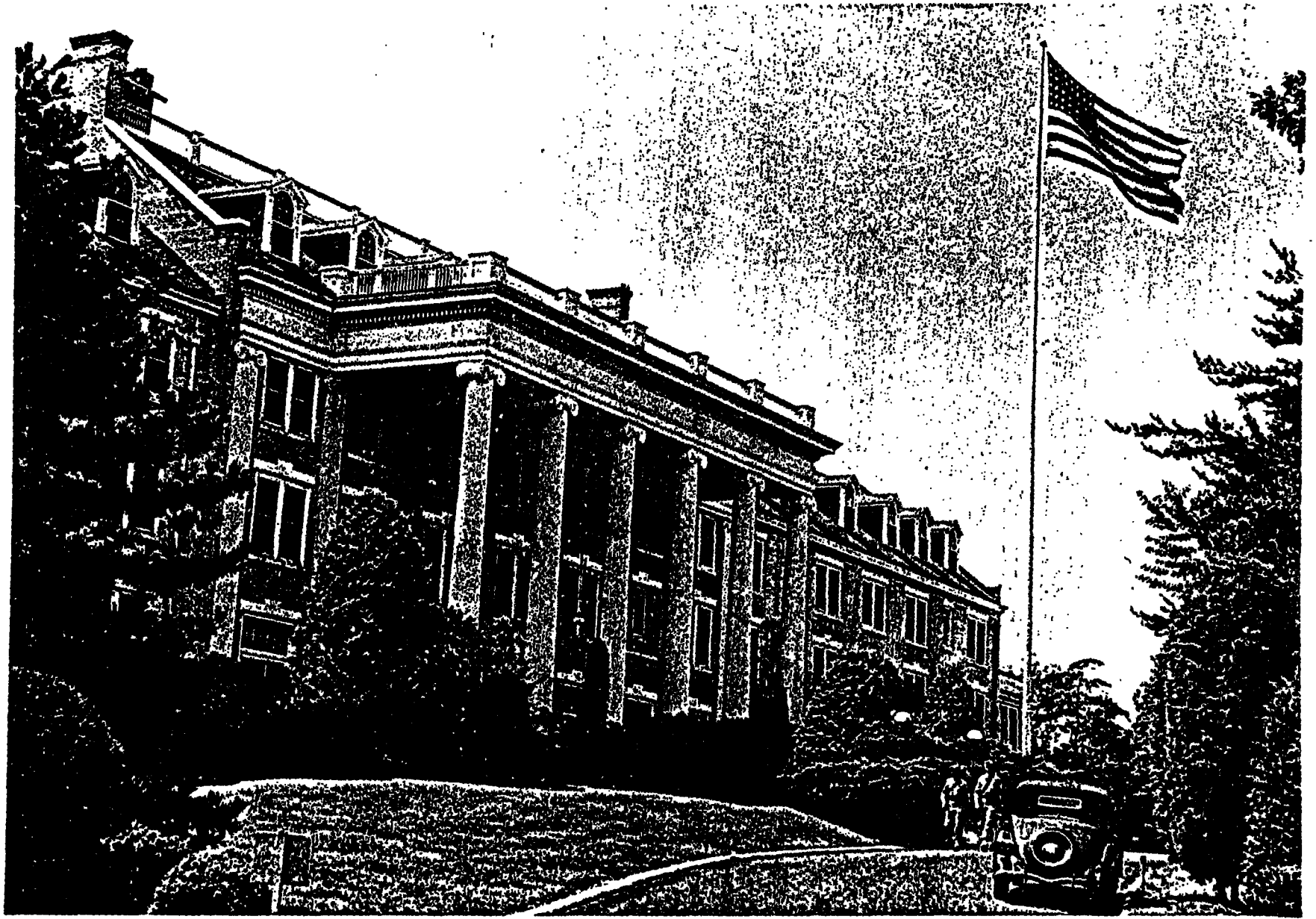
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HEADQUARTERS BUILDING

ARLINGTON HALL STATION

Spring 1945



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## CHAPTER V. ARLINGTON HALL STATION

A. The Search for a Site

Before the entry of the United States into World War II, the Signal Intelligence Service occupied quarters on the third floor of the Munitions Building. As these quarters were already crowded, tentative plans were made for transferring the Signal Intelligence Service to the Pentagon Building as soon as that structure should be completed. These plans were never carried out, however, owing to the fact that the space assigned (16,000 square feet) in the new building, though more extensive than that in the old, was recognized as inadequate for the potential needs (35,000 square feet) of an expanded organization. After preliminary discussion within the Office of the Chief Signal Officer and with representatives of G-2, a directive for the expansion of the Signal Intelligence Service, already mentioned in the preceding chapter (page 84), was issued on 18 April 1942.<sup>1</sup> This directive stated in part:

It is desired that a study be made looking to the removal of your Signal Intelligence Service activities now established in the Munitions Building to a place outside of the city of Washington where it will be more secure from bombing or from the attentions of enemy agents. This site should preferably be not more than one hour and thirty minutes journey by automobile from Washington and, if practicable, in the vicinity of your Eastern Primary Monitoring Station.

The provisions of this directive limited the choice of a location, but several properties were investigated in the Washington area and proved unsatisfactory for one reason or another. The campus

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1. Memo The Adjutant General for CSigO, 18 Apr 42, sub: Expansion of the Signal Intelligence Service [49320.2(4.18.42) McB, par 2, 6-7.

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of Hood College in Frederick, Maryland seemed most suitable, but the trustees of the college entered strong objections on the ground, doubtless completely justified, that the use of the property by the Government would mean the end of the institution. Moreover, the town of Frederick was not large enough to absorb the burden of providing housing for the personnel of the Service.

The site ultimately selected came to the notice of the authorities by fortuitous means. Almost immediately after the issuing of the directive, a party of officers, among whom was Major (now Colonel) Harold G. Hayes, then Executive Officer of the SIS, were returning from an inspection of the proposed site for the monitoring station at Vint Hill Farms, near Warrenton, Virginia. Their attention was drawn by chance to the grounds of the Arlington Hall Junior College, at 4000 Lee Boulevard, Arlington. The Junior College was a Virginia corporation organized for profit, but it had generally been operated unprofitably, and was in the hands of a receiver. The property was not, however, on the market, and no governmental agency had suggested the site for possible purchase. A preliminary inspection of the grounds—upon which had been erected a large four-story school building, a gymnasium with swimming pool, a riding hall, a power plant, and three residences, in addition to a number of smaller buildings—convinced the members of the party of officers of the suitability of the site and structures for utilization by the expanding Signal Intelligence

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Service. The property was therefore immediately inspected by Brigadier General (now Major General) Frank E. Stoner, Director of the Army Communications Service, and Colonel Frank W. Bullock, Chief of the Signal Intelligence Service, who recommended that it be acquired. After further inspection and approval by representatives of G-2 and of the Chief Signal Officer, and by Colonel J. J. O'Brien, Chief of the Real Estate Division of the Corps of Engineers, action was taken to have the Real Estate Division purchase the property. The transactions were handled by the Division Chief rather than by the Division Engineer, as is customary.

An attempt was made to obtain the property without condemnation under the War Powers Acts, but the Arlington Hall Junior College believed that the buildings and grounds (approximately 58 acres) were worth \$840,000, whereas the War Department appraised them at more nearly \$600,000. A Declaration to Take was therefore filed in the Federal District Court at Norfolk, Virginia on 7 June 1942, and a Right of Entry was obtained shortly thereafter. The final price for the property was set by the court at \$650,000.

B. The Move to Arlington Hall

A small guard detail of 14 enlisted men and five officers, drawn from the personnel of the Signal Intelligence Service and under the command of Second Lieutenant (now Major) Scott F. Rankle, took possession of the property on 14 June 1942. Arlington Hall Junior College, then

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under the management of Mr. T. L. Hayworth, the receiver, continued to hold title and possession of miscellaneous personalties, Mr. Hayworth and certain employees were given a reasonable time to dispose of the property and find quarters elsewhere. Lieutenant Runkle and the Guard were charged with the protection of the Government's interests. As it appeared very much to the advantage of the War Department to procure most of the personal property (furniture, office equipment, kitchen equipment, etc.) belonging to the school, a request for procurement authority was routed to the Procurement Division, Office of the Chief Signal Officer. Upon approval by the Fiscal Director, \$40,000 was appropriated for the purchase, which was consummated on 27 June 1942, and the Signal Corps then obtained complete possession of the Arlington Hall property.

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Immediately afterward the Supply Unit of the Signal Intelligence Service, then a component of the Code Compilation (C) Section, moved from the Munitions Building to Arlington Hall Station. At the outset, the Supply Unit performed all necessary utilities services for the Post as well as those pertaining to operations of the Signal Intelligence Service. Second Lieutenant (now Lieutenant Colonel) Russell H. Horton was officer in Charge of the Unit at that time.

Arlington Hall Station, with Colonel Bullock as Commanding Officer, was activated as a Military post under the Military District of

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2. See vol. Seven, <sup>Part III,</sup> sec A of the History of the Signal Security Agency.

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Washington on 8 July 1942, when the Headquarters of the 2nd Signal Service Company was transferred from the Munitions Building. On 25 July 1942 Major (afterwards Lieutenant Colonel) Charles H. Blackmon was assigned to the Signal Security Division (as the SIS had come to be called) and designated as Assistant Commandant, AIS. To Major Blackmon was delegated responsibility for the program of physical rehabilitation and expansion of Arlington Hall Station. He also served as deputy for the Chief in other matters pertaining to the Signal Security Agency.

The main school building, though subsequently remodeled to a limited extent, has not been fundamentally changed since it was taken over. It is a four-story L-shaped structure, situated some distance from the highway (Lee Boulevard), from which, in winter, the four Ionic columns of the facade make an imposing appearance.<sup>3</sup> The ground floor at that time contained a number of offices for the use of the school authorities as well as a larger room known as the Chapel, in which there was an organ, later removed. In the basement were storerooms, and in the wing, a cafeteria and kitchen. School rooms occupied the fourth floor, but on the second and third floors were dormitory suites consisted of two bedrooms, each approximately 16 feet square, provided with double closets and with a bathroom located between each

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3. In the summer season Arlington Hall was operated by the previous owners as a hotel.

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pair of rooms. It was intended to install all of the operating units of the Signal Intelligence Service in this building, at least temporarily, with the exception of the Supply Unit, which was to be installed in the riding hall.

Following the transfer of the Supply Unit various other units of the Signal Intelligence Service began to be moved into the new quarters. Among the first were some newly activated units of the Cryptanalytic (B) Section, which occupied rooms on the third and fourth floors of the west end of the main building. Units of the Cryptographic (C) Section were accommodated in the wing. One of the ground floor offices was reserved for the use of the Chief Signal Officer, then Major General Dawson Olmstead, on the occasion of his frequent visits. During July and August 1942 units were at irregular intervals moved and installed in the new quarters. The final move was made on Sunday 24 August 1942, when the remaining parts of the Signal Intelligence Service (the bulk of B Section and all of the Administrative Section) were moved together, and the Munitions Building ceased to be headquarters of the Signal Intelligence Service. During the period of transition shuttle bus service was maintained between the Munitions Building and Arlington Hall Station on an hourly schedule.

#### C. Rehabilitation and Construction Work

Conferences held in June 1942 between Lieutenant Colonel (later Colonel) Rex W. Minckler and Major Blackson of the Signal Intelligence

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Service with Lieutenant Colonel Edmond K. Daly and Lieutenant Colonel Whitney Ashbridge, representing the Chief of Engineers, Lieutenant Colonel Clarence Renshaw, District Engineer, and Lieutenant Colonel Ebon S. Longfellow, Area Engineer, resulted in immediate commencement of work on the rehabilitation of the main school building to install adequate lavatory facilities and prepare the building for official use. Approval of the Chief Signal Officer and of the Commanding General, Services of Supply was immediately obtained, and funds in the amount of \$200,000 were appropriated for the conversion of existing facilities, including the laying of a concrete floor in the large riding hall and the installation of offices and lavatories for the Supply Unit in that building. These improvements converted the structure into a warehouse adequate for the supply requirements then anticipated. This work was substantially completed by 1 August 1942, but the installation of new lavatories in the main building was not completed until late in September.

With the completion of the transfer, the main school building, which prior to that time had been more than adequate for housing all offices then located at Arlington Hall, became very crowded. For example, a unit then known as B-II-a-3, which at the time included three officers, two enlisted men, and eight civilians, was crowded into two former bedrooms with their connecting bathrooms. In addition to the desks of the 13 persons, this unit possessed heavy filing cabinets and some other very bulky equipment, which filled all available space and

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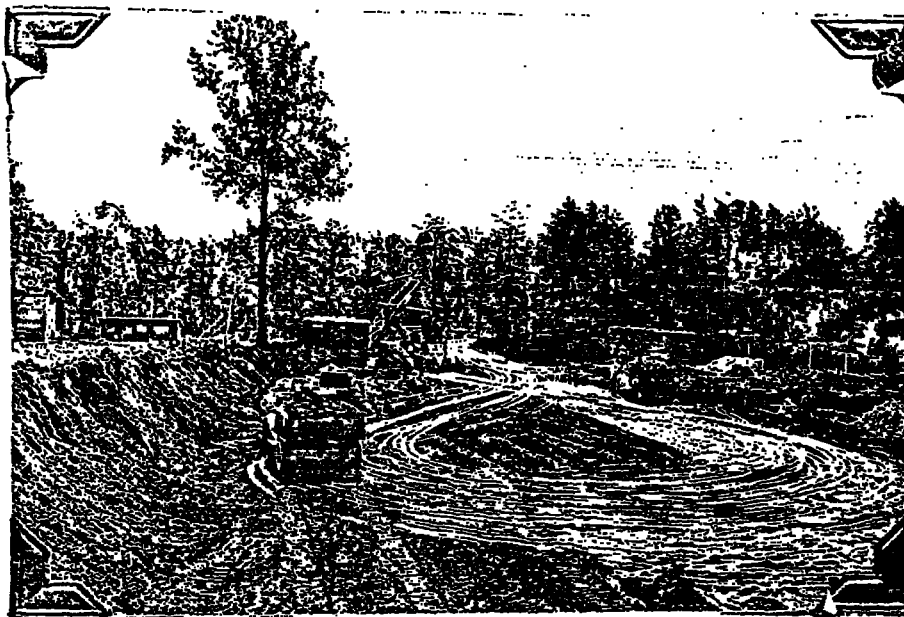
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made operations very difficult. This crowding did not, however, mark a change from conditions which had obtained in the Munitions Building. One of the officers mentioned, who had reported for active duty on 21 July 1942, could not be accommodated at the Munitions Building and was therefore sent to Arlington Hall for temporary assignment in advance of the unit to which he was to be assigned. Moreover, this building, originally constructed for far different purposes, was not ideally suited for use as office space by units which required heavy equipment. The operations of the Tabulating Machinery Unit, which had been installed on the ground floor, were a constant threat to the building because of the unusually heavy strain placed on the flooring by the machinery of that Unit.

It therefore became imperative that new construction be initiated to house the operating units, which by the time such construction could be completed were expected to have greatly expanded their staffs. The planning and necessary preparation for this construction were obtained very quickly through a series of informal conferences held during the latter part of July 1942 by Colonel Bullock (then Chief of the Signal Intelligence Service), Colonel Minckler, and Major Blackmon, with Colonel Daly and Lieutenant Ashbridge of the Construction Division, Office of the Chief of Engineers. Arrangements were made by Major Blackmon for the establishment of a "triple A" priority credit for construction materials with the Army, the Navy, and the Munitions Board. Approval of the project by G-2, by the Chief Signal Officer, and by

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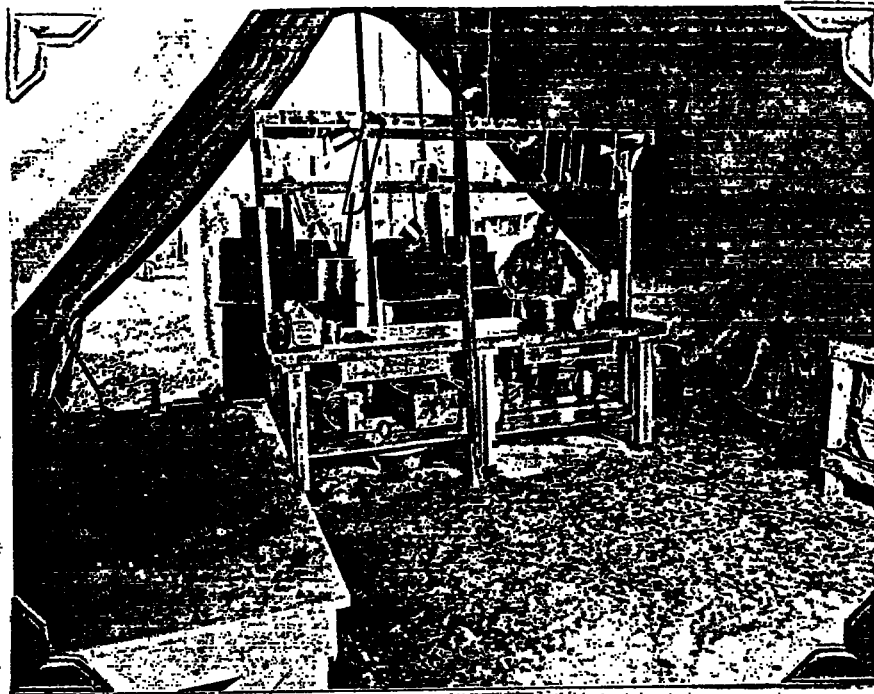


Excavation of Central Portion of "A" Building -  
Looking South. 5 September 1942.



Construction of EM Barracks.

12 September 1942.



Field Kitchen. 10 October 1942.



Chow Line Inside Mess Hall.

10 October 1942.

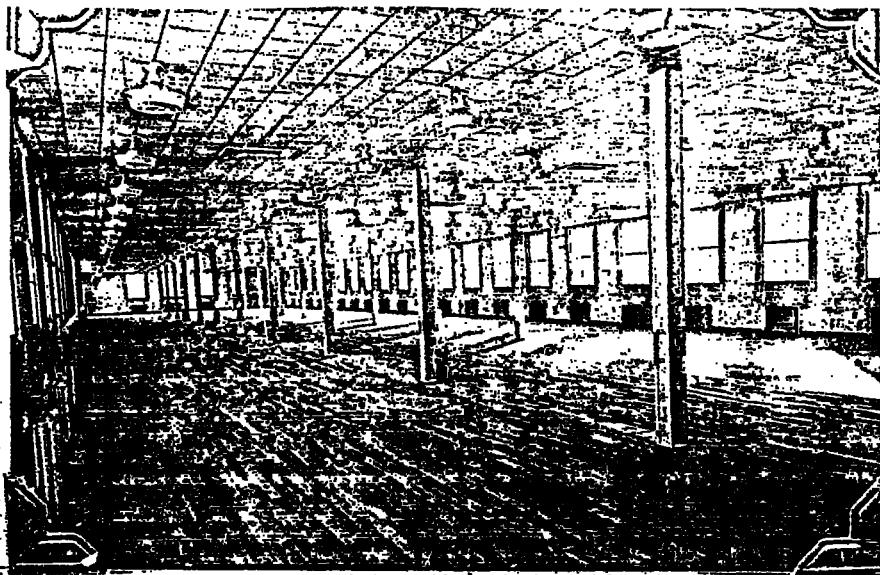


Completed EM Barracks - from Post Road  
Parallel to Glebe Road. 10 October 1942.

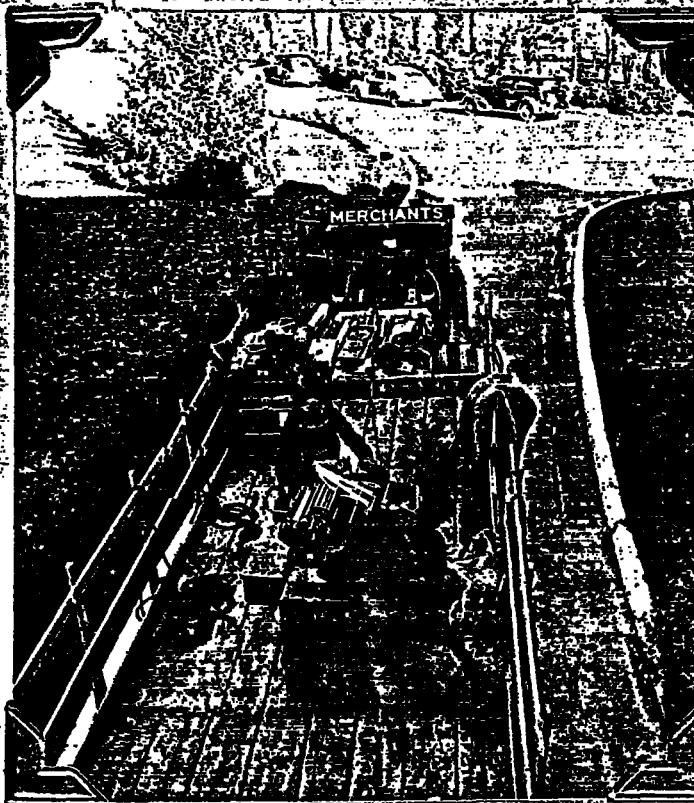


Interior of an EM Barracks.

24 November 1942.



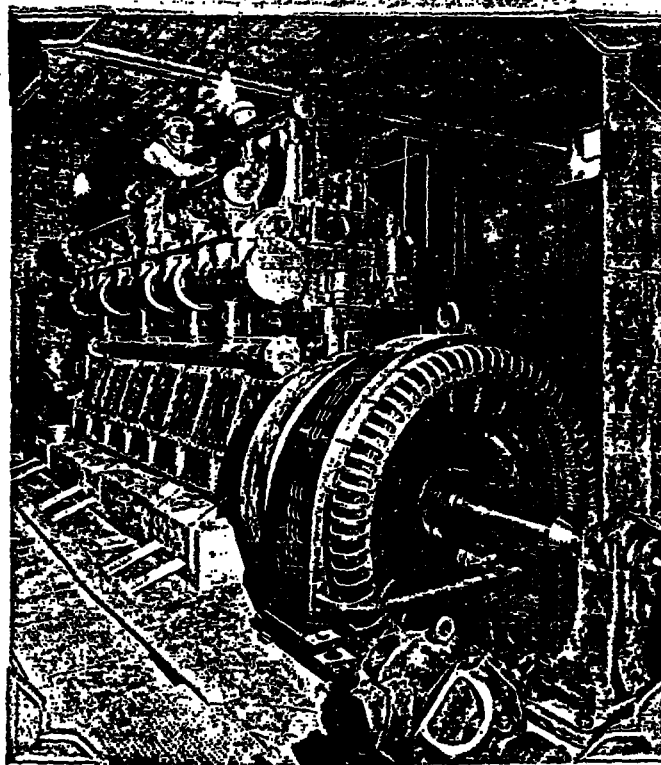
Interior of Second Floor, Wing 8,  
"A" Building. 6 November 1942.



IBM Unit of B Section Being Moved.  
26 November 1942.



Crane Lifting Laboratory Section Dryer up  
through Window in Wing 8. 26 November 1942.



Diesel Motor with Attached Generator for  
Emergency Power. 26 November 1942.

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Headquarters, Services of Supply was then obtained and the construction directive was issued through Engineer channels. Construction was by the firm of John McShain, Incorporated.

By 4 September 1942 ground was broken for construction of Operations A Building, which was designed to accommodate approximately 2200 persons. This building, 607½ feet long by 239½ feet wide, covered an area of 145,496 square feet and provided 239,114 square feet of floor space. There were two floors in the building and under one of the eight wings a basement with a fireproof vault containing 6446 square feet. The plan of the building consisted of a headhouse fronting the eight wings, which made, with the basement under wing 1, 17 wings in all, each 191½ feet long and 47½ feet wide. Access to the wings was provided from the headhouse, the wings were connected by transverse corridors near the opposite end. Space for 67 offices was provided on the first floor of the headhouse, for 58 on the second floor, and for a single storeroom, a large fireproof vault, in the basement. This made a total of 126 offices in the headhouse. These offices provided 28,856 square feet on each floor. Construction was similar to that of other temporary buildings then being erected in Washington by various agencies. In some cases wings were subdivided into smaller rooms, but the majority remained undivided. The decision to leave the wings undivided proved a wise measure, for when units expanded or contracted, all that was necessary was to change the number of square feet assigned to a unit. Had partitions been installed, the problem of moving would have been

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complicated by the necessity to consider the size of the rooms as well as propinquity to other units. With no partitions, space was allocated efficiently and utilized to a maximum degree without waste.

On 15 November 1942, wings 7 and 8 were ready for occupancy and two days later the IBM Unit of B Section and the Laboratory (D) Section were moved in. As rapidly as room became available, other units located in the main school building, now designated as Headquarters Building, were moved into the new quarters, and the main building was restricted to use by administrative units.

An emergency power plant of 450 kilowatt capacity was procured and installed in a specially constructed reinforced concrete vault in Operations A Building. This unit was designed to provide power automatically for critical operations should normal power sources fail.

Thirteen barracks for enlisted men, together with a mess hall, dispensary, and post exchange, were constructed concurrently with the first work on Operations A Building. By 1 November 1942 a group of these buildings was ready for occupancy, and the enlisted men of the Second Signal Service Battalion, who had been until then on commutation of rations and quarters, were assigned to live in the barracks. A field kitchen was established, and an Army Mess was operated by the Battalion.

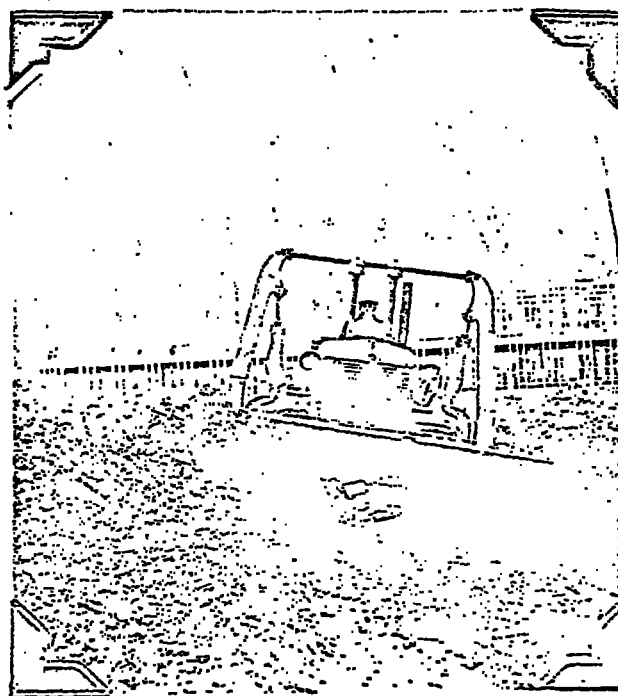
4. For the pictorial record of week-to-week progress on this construction, see Pictorial History of the Signal Security Agency: Construction work at Arlington Hall Station 1942-1943.
5. See Pictorial History of the Signal Security Agency, vol One, p.5.

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Excavating for "B" Building.

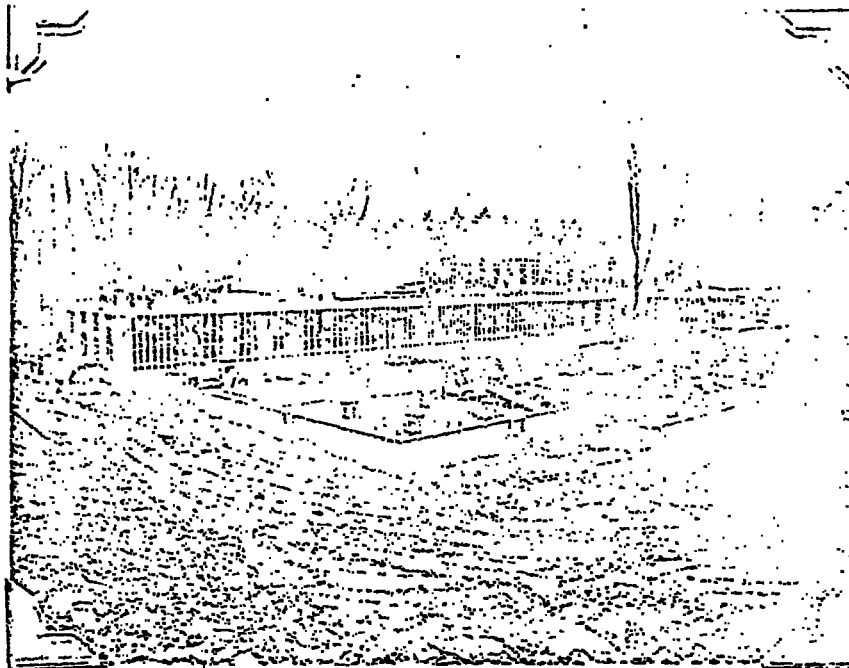
12 December 1942.



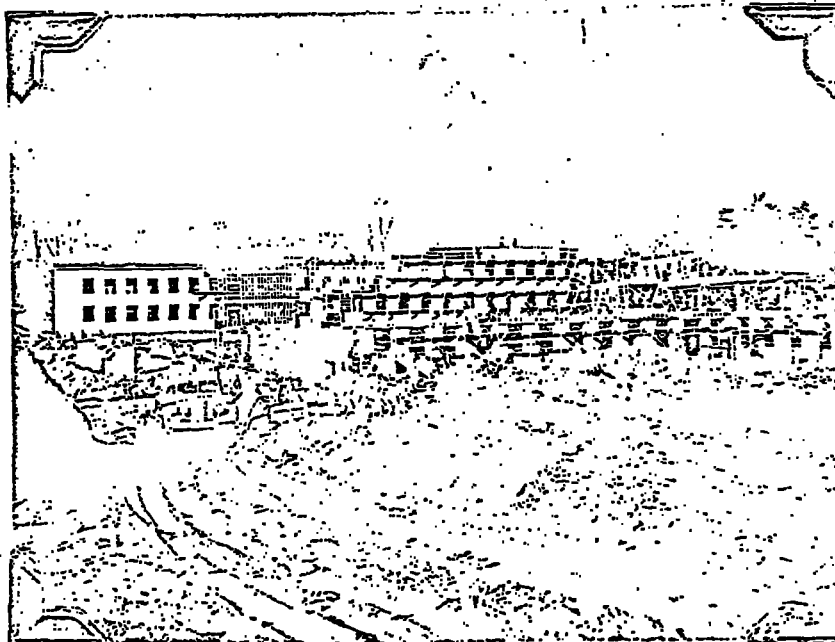
Adverse Winter Weather Conditions -

Bulldozer Clearing Mire off Road.

1 January 1943.



Rapid Progress of Construction - "B" Building  
Only 26 Days after Ground Was Broken.



South Side of "B" Building -  
40 Days after Ground Was Broken.

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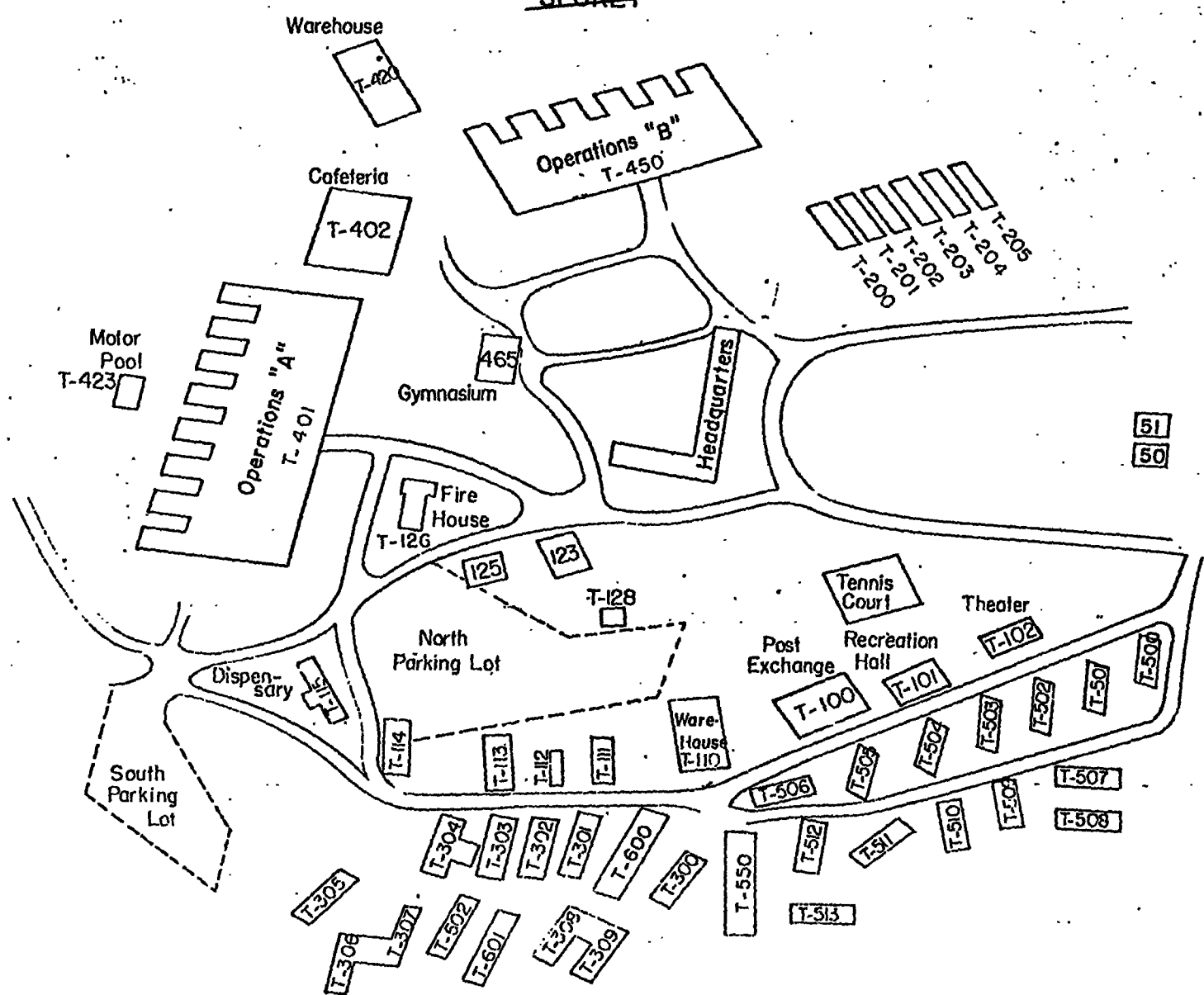
By 8 November 1942 plans were made for further expansion of civilian personnel to 3683 employees to carry out the mission of the Signal Intelligence Service. It was realized that an additional operations building would be necessary to house these workers and their equipment. A directive for the construction of a building similar to the original Operations A Building was sought and obtained. Because an experienced Area Engineer organization, headed by Captain (later Major) Tracy C. Coleman, Corps of Engineers, was in existence on the Post, and John McShain, Incorporated, who were in the process of completing A Building, were also already on the site, it was possible to attain greater speed in the construction of the new building than in the case of the first Operations building. Ground was broken on 4 December 1942, and in spite of adverse winter weather conditions, the construction progressed very rapidly.

Operations B Building was designed to be similar in size and construction to Operations A Building, though the plans are not identical and the size was somewhat smaller. The following table provides a comparison of the two buildings:

	A BUILDING	B BUILDING
<u>Dimensions:</u>		
Length	607'6"	446'6"
Width	239'6"	239'6"
Area in square feet	239,114	218,297
<u>Number of Floors:</u>	2 (and basement)	2 (and basement)

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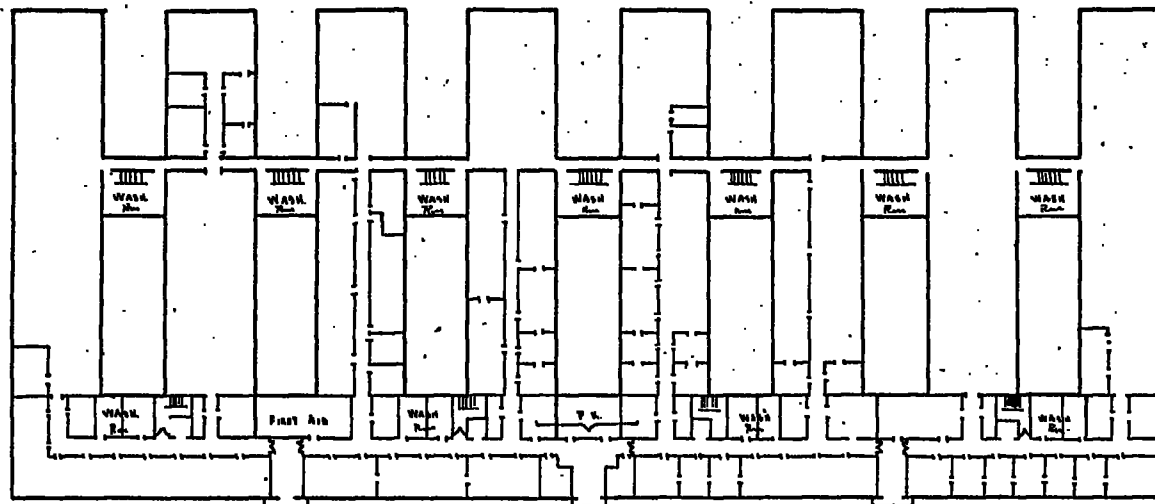


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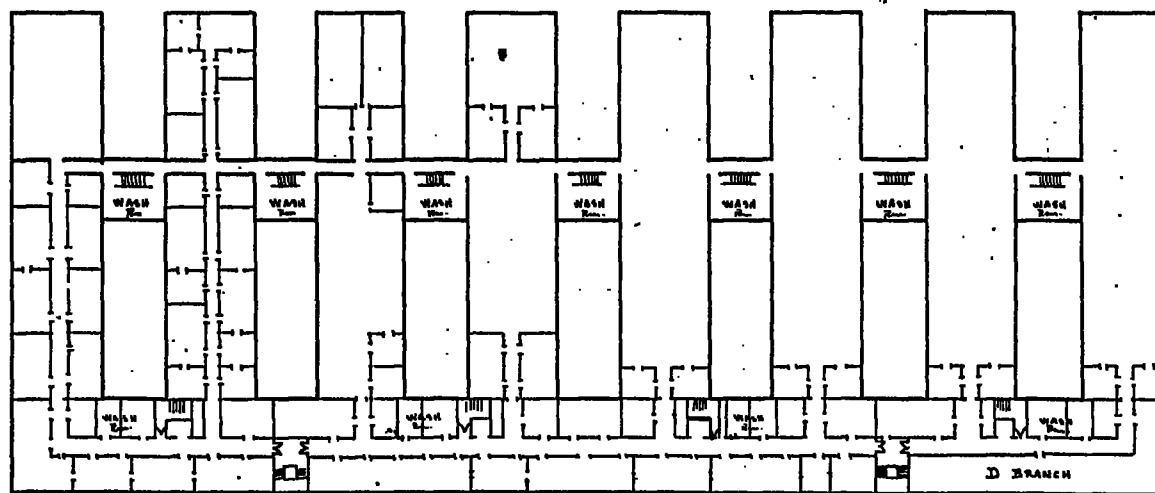
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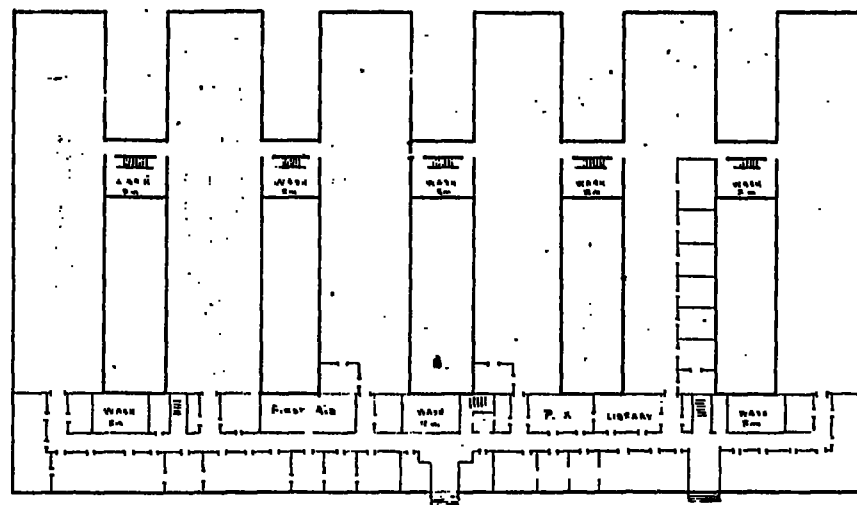


FIRST FLOOR PLAN

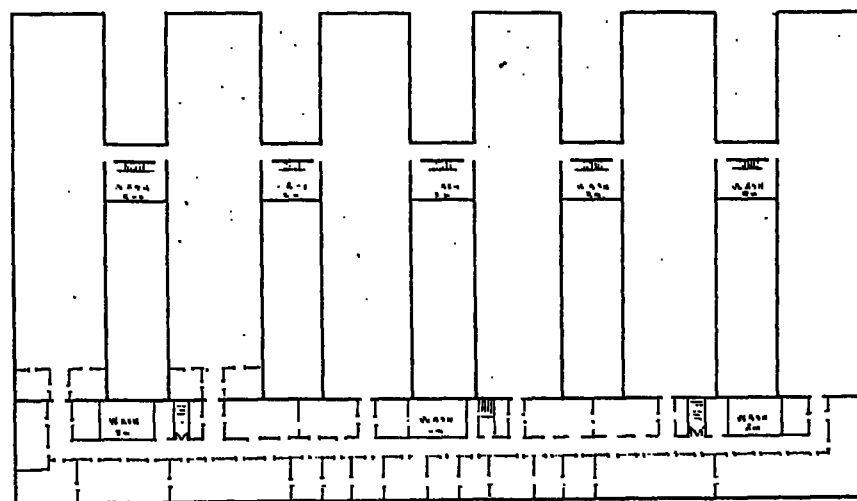


SECOND FLOOR PLAN

'A' BUILDING



FIRST FLOOR PLAN



SECOND FLOOR PLAN

'B' BUILDING

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Number of Wings:

First floor	8	6
Second floor	8	6
Basement	<u>1</u>	<u>4</u>
Total	17	16

Size of wings:

Length	191'6"	191'6"
Width	47'6"	47'6"

Number of offices in headhouse:

First floor	67	51
Second floor	58	56
Basement	<u>1 (vault)</u>	<u>19</u>
Total	126	126

Area of headhouse in square feet:

First floor	28,856	21,256
Second floor	28,856	21,256
Basement	<u>4,446</u>	<u>15,200</u>
Total	62,158	57,712

The Supply Section carried out the huge task of equipping the two buildings. Operations B Building was fully occupied by 1 May 1943, following partial occupancy as early as 3 March 1943.

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6. During this period the Supply Section also contracted for research and development of technical equipment worth millions of dollars. The overseas detachments of the Second Signal Service Battalion were also greatly aided by the special shipments made to them from Arlington Hall Station during 1942 and 1943.
  7. At the same time that Signal Intelligence Service activities at Arlington Hall were expanding rapidly, two other Signal Intelligence installations were undergoing development under direction from Headquarters at Arlington Hall Station. The first of these was the Class IV installation designated as Vint Hill Farms Station, which was the site of the Eastern Primary Monitoring Station as well as of the Cryptographic School for military personnel. The latter had been transferred from Fort Monmouth on 5 October 1942. Two Rock Ranch, Petaluma, California, which was activated as a Class IV installation on 27 August 1942, was the location of the other major monitoring station of the Signal Intelligence Service.

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D. Later Building Programs

In June 1943, as a result of the assignment to Arlington Hall Station of 550 enlisted women, a minor construction project was initiated to convert 13 existing barracks for use of enlisted women, including provision for a Beauty Shop. It was also necessary to construct in a separate area six theater-of-operations-type barracks for the enlisted men who were to be retained as well as latrine and supply buildings. New construction was also initiated by Headquarters at Arlington Hall Station for 150 enlisted women at Vint Hill Farms Station and 100 at Two Rock Ranch. The troop housing, which began at Arlington Hall Station early in August, was entirely complete by 10 October 1943.

Other construction initiated in 1943 included a one-story addition to Wing 1 of Operations A Building, 23 x 70 feet in dimensions. Completed in September 1943, this addition provided adequate paper storage for the printing plant. A small addition to telephone facilities was also necessary in September 1943, the increase of traffic having exceeded the capacity of the new switchboard installed in November 1942.

On 3 January 1944, a directive was received authorizing an increase in military strength of 700 enlisted women and 200 officers and an increment of 2275 civilian employees. This authorization had been anticipated by the Commanding Officer, and a comprehensive plan had already been drawn up and presented to the U.S. District Engineer with a request for more space to accommodate the additional personnel and equipment.

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The master plan, prepared by the District Engineer in collaboration with Lieutenant Colonels Slack and Johnston and others, called for the construction of 13 mobilization-type barracks, an industrial-type dispensary with 14 beds, a 620-seat auditorium and theater, a troop administration building, a mess hall, a new exchange building, a new motor repair shop, a new Post Engineer office and shop, a recreation building, and a warehouse with 9000 square feet of storage space.

Because a large proportion of the new employees were recruited to work on the swing and graveyard shifts, it was not necessary to provide additional space for offices or operations. Additional cafeteria facilities, however, were an obvious necessity.

The need for the construction requested was investigated on behalf of the Chief of Staff by Colonel John H. Stutesman, GSC. A thorough investigation was conducted, and a meeting was held to examine the different points of view as to the project. The Service Command favored adherence to theater-of-operations construction without central heating, while the plan submitted by the Commanding Officer, Arlington Hall Station, called for mobilization-type construction, including a central heating plant. Colonel Stutesman's report recommended approval of the plan submitted by Colonel Corderman with the exception of one item (an enlarged gravel parking lot). A directive for the new construction was forthcoming on 15 February 1944, and the work commenced on 4 April 1944. By 19 May 1944 the project, which was carried out by two different contractors, was 52 per cent complete. Although work on the cafeteria

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addition was slow by reason of the necessity for continuing food service while alterations were in progress, the project on 23 June 1944 was 93 per cent complete, and by 15 July 1944 substantially all work was finished.

The following is a list of the various buildings which were in existence before the Army took over, or which were ultimately completed at Arlington Hall Station. The letter "C" refers to a cantonment building, "P" to a permanent building, and "T" to a temporary building.

<u>Number</u>	<u>Name</u>	<u>Type</u>	<u>Number</u>	<u>Name</u>	<u>Type</u>
1	Headquarters	P	311	Barracks, EW	T
50	Quarters No. 1	P	312	Barracks, EW	T
51	Quarters No. 2	P	313	Barracks, EW	T
100	Post Exchange	C	314	Barracks, EW	T
101	Recreation Hall	C	315	Barracks, designed for EW, occupied by EM	T
102	Theater	C			
110	Warehouse	P	316	Barracks, designed for EW, occupied by EM	T
111	Old Fire House	T			
112	Quarters	T			
113	Tailor Shop	T			
114	Engineer's office and Shops	C	401	Operations A	C
115	Dispensary	C	402	Cafeteria	C
125	Quarters No. 3	P	410	Incinerator	P
127	Central Heating Plant	P	420	New Warehouse	C
128	New Boiler Plant	C	423	Motor Repair and Motor Pool	C
200	Barracks, EM	T	450	Operations B	C
201	Barracks, EM	T	465	Gymnasium	P
203	Barracks, EM	T	500	Barracks, EW	C
204	Barracks, EM	T	501	Barracks, EW	C
205	Barracks, EM	T	502	Barracks, EW	C
206	Dayroom supplies	T	503	Barracks, EW	C
207	Latrine	T	504	Barracks, EW	C
300	Beauty Shop	T	505	Barracks, EW	C
			506	WAC Administration	C

8. For details, see Letter, Chief, Engineering Division to Post Engineer AHS, 11 Jul 46, subject, Transmittal of Cost Statement.

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<u>Number</u>	<u>Name</u>	<u>Type</u>	<u>Number</u>	<u>Name</u>	<u>Type</u>
301	Dayroom and Post Office	T	507	Barracks, EW	C
302	Barracks, EW	T	508	Barracks, EW	C
303	Barracks, EW	T	509	Barracks, EW	C
304	Barracks, EW	T	510	Barracks, EW	C
305	Storage	T	511	Barracks, EW	C
306	Barracks, EW	T	512	Barracks, EW	C
307	Barracks, EW	T	513	Barracks, EW	C
308	Barracks, EW	T	550	New Mess Hall	C
309	Barracks, EW	T	600	Old Mess Hall	T
310	Barracks, EW	T	601	WAC Clothing and Equipage	T
			602	WAC storage	T

Construction projects which were completed in the Fiscal Year 1945 included the mobilization-type barracks, the new Theater, the Recreation Hall, and the addition to the cafeteria. The Theater was completed early in August 1944. The addition to the cafeteria, completed during August 1944, was effected without interruption to the full cafeteria program.

#### E. Maintenance and Administration

During the period from 1 August 1942 to 1 May 1943 the fact that there was a large Area Engineer office on the Post made the work of the Post Engineer of relatively little importance. Repairs and maintenance were at first cared for by the former school handyman, Mr. Joseph A. Lenons (died May 1945) and the grounds superintendent, Mr. Dayton K. Sinnerly, who, together with labor crews, were hired by the Signal Corps when the property was taken over. These employess operated under the supervision of the Supply Unit. The first Post Engineer services at Arlington Hall Station were provided by the Commanding Officer at Fort

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Myer, Virginia in September 1942, when an officer was assigned for a portion of each day. At the same time, supervision of the custodial employees was transferred to the Post Engineer at Fort Myer, and they were placed on his payroll. After the final acceptance, from the Area Engineer, of Operations A Building and the troop housing, the work load of the Post Engineer greatly increased, and the force at his disposal, although augmented from time to time, was unable to keep pace with the increasing volume of work. Finally, after the completion of Operations B Building and the withdrawal of the Area Engineer, an urgent request was made by the Commanding Officer for improved Post Engineer service. The Third Service Command Engineer then took action to have an officer stationed at Arlington Hall Station for full-time duty as the Assistant Post Engineer, under the Post Engineer, Fort Myer, Virginia.

On 1 February 1943 a graduate of the Signal Intelligence School, Colonel W. Preston Corderman, until then Chief Postal Censor in the Office of Censorship, replaced Colonel Frank W. Bullock as Commanding Officer, Arlington Hall Station; as Chief of the Signal Security Division; and as Commanding Officer, Second Signal Service Battalion. On 17 February 1943 Lieutenant Colonel John B. Mathews, then Executive Officer and Adjutant of Arlington Hall Station, was replaced by Major (later Colonel) James E. Slack. In a reassignment of functions, Captain (later Lieutenant Colonel) Joseph W. Johnston and Major Slack, Slack

9. Both Major Slack and Captain Johnston had served in the Postal Censorship under Colonel Corderman.

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took over the responsibilities of Lieutenant Colonel Blackmon, who was relieved as Assistant Commandant on 17 February 1943.

At the time these changes in the command of the Signal Intelligence Service and Arlington Hall Station were effected, the bulk of the physical expansion of the organization had been completed and the personnel expansion was well under way. The following major administrative problems, however, remained to be solved:

1. Completion of the civilian personnel expansion then in progress.
2. Making provision for adequate feeding of thousands of civilian employees, including the serving of hot meals on a 24-hour basis.
3. Providing for the replacement of male military personnel with members of the WAC, including the necessary conversion of troop housing to the standards prescribed for women. This also included providing housing for the remaining enlisted men in a new location separated from the WAC area.
4. Increasing military strength by direct recruitment to fill an increased allotment of enlisted women.
5. Providing additional troop housing, training, and recreational facilities for the enlarged military strength.
6. Securing adequate transportation service for the constantly increasing personnel of the Post.

By the end of the Fiscal Year 1944 most of the major administrative problems pertaining to the expansion of Arlington Hall Station had largely been solved. Many new problems pertaining to operating methods remained, and a number of services, such as provision of adequate transportation, required constant attention to prevent a breakdown.

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F. Services

As soon as large numbers of military and civilian personnel joined the Post, problems of health, recreation, housing, food service, and public transportation demanded attention. As early as 1 August 1942 the station hospital at Fort Myer agreed to provide emergency medical care. Shortly thereafter the Medical Director of the War Department, Dr. F. C. Smith, equipped a small dispensary unit in the Headquarters Building and provided a nurse. A complete dispensary unit was included in the plans for each of the operations buildings, and the service provided in the autumn of 1942 was expanded. Medical care for military personnel was at first provided by the Fort Myer Station Hospital, but on 5 November 1942 a medical officer was assigned to part-time duty at Arlington Hall Station in the newly completed dispensary. By December 1942 a full-time medical officer was assigned, and on 22 May 1943 the 2505 Service Unit was activated, including a dentist and medical technicians.

The Post was possessed of certain recreational facilities which had been in existence under the Junior College, including a gymnasium with a swimming pool and several tennis courts. In the neighborhood and accessible were baseball diamonds, picnic grounds, and bowling alleys. The Arlington Hall gymnasium was used daily by the military personnel for basketball and swimming. The tennis facilities were improved and put to constant use, and baseball games were organized for the officers as well as for the enlisted personnel. The drill field

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was graded and seeded early in August 1944, and before winter weather had set in, it was used for retreat parades and ceremonies as well as for recreational purposes. On 12 August 1944 the new Post Theater was opened and daily showings of Army Motion Picture Films were inaugurated for the convenience of military personnel on both day and night shifts. <sup>10</sup> The Recreation Hall provided a library and a lounge-ballroom, and a barracks was converted for use as a Hobby House, where interest in wood, metal, plastics, and leather work was developed by enlisted men and women through expert instruction. Late in the Fiscal Year 1945 a Camera Club was organized. A Duck Pin Bowling League, organized among the civilian employees on the Post in 1944, used alleys in Clarendon and in Colonial Village. Aside from amateur dramatics, an orchestra, and occasional dances, parties, and picnics, however, the problem of providing recreational facilities and organizing recreation on an Army Post for the civilian employees was never satisfactorily solved.

The Housing Office was opened on 1 December 1942 to take care of the multitudes of people in need of rooms, houses, and apartments. Prior to that time officer personnel had had the advantage of assistance from a housing office maintained by the War Department as well as from

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10. Shows began at 1800, 2000, and 0100 hours. The Theater was also used for lectures (see volume of transcriptions of the "This is Our War" Series on file in the Historical Unit) and for USO entertainment.

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the National Housing Administration, also available to civilian personnel. Long lists of rooms were now compiled, and contacts were established with the National Housing Administration to secure a supply of rooms in the dormitories for women at Arlington Farms, which were then under construction. The first dormitory at the Farms was ready for occupancy on 27 February 1943.

In October 1942 the shuttle-bus service on a half-hour schedule was extended to the Pentagon Building. Negotiations with the local bus companies for special service to Arlington Hall Station began soon after the Post was opened. The Arnold Bus Lines increased this special service in September 1942, as soon as the traffic warranted. Then, in November 1943, the bus drivers employed by the Washington, Virginia, and Maryland Coach Company (the Arnold lines) went on strike against wage restrictions imposed by the War Labor Board, trucks and passenger cars of the Post Motor Pool, together with borrowed vehicles from Fort Myer and Vint Hill Farms Station, were used to transport employees from the terminal at Rosslyn, Virginia and other points in Virginia. The bus drivers were finally prevailed upon to return to work, and after two days the use of Government transportation was terminated.

An Employee Counselor was established in Post Headquarters in November 1942 to advise civilian employees in personal matters and to assist the Post management in personnel relations. This office was expanded to include a Recreational Counselor, and in 1943 Employee Counselors were established in the various branches.

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An Emergency Loan Fund, jointly administered by the Fiscal Officer and the Chief Employee Counselor was established in January with small contributions from officers and civilian employees. This fund was very successful in helping civilian employees over minor financial emergencies. Its turnover was large and its losses negligible.

During the early days at Arlington Hall Station the problem of feeding the personnel other than enlisted had been solved, though not satisfactorily, in two ways. The Welfare and Recreational Association of Public Buildings and Grounds, Inc., then operating the cafeterias in the Munitions Building, provided box lunches at 26 cents each for those who wished them. Orders were taken daily at the beginning of work, but as the lunches were frequently late, it was never possible to predict the time of arrival. In the vicinity of the Post, however, were one small restaurant and two drug stores offering food service, and these were patronized by an increasing number of persons from Arlington Hall. Despite the fact that neither the food nor the service of these establishments was satisfactory, patronage had increased to such an extent that they were no longer able to accommodate the large numbers. Arlington Hall Station possessed a cafeteria and kitchen of its own, but during July and August 1942 was without facilities to operate them. Accordingly, the Welfare Association was asked to operate the cafeteria. This operation began on 1 September 1942 and continued until 17 January 1943, when a new cafeteria building designed to serve 2500 customers was opened.

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11. The cafeteria was placed at the West end of Operations A Building.

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The most pressing problem confronting Arlington Hall Station as a whole in February 1943 was still the problem of providing an adequate food service. The new cafeteria was in operation, but its capacity of 2500 had, as a result of subsequent increases, been far exceeded. There were long lines at peak periods during the day and the Welfare Association made little progress in solving the problem of quick service and had few suggestions to offer to remedy the situation. Furthermore, the Association was unable to provide for the evening and night shifts, and with continued expansion of personnel, these shifts were becoming so large as to necessitate night food service.

The Exchange Officer, Major E. E. Ferguson, had developed a small \$3,000 gross business (October 1942) to one grossing \$30,000 a month in March 1943 (including income from the branch at Vint Hill). Accordingly, early in March 1943 Major Ferguson was asked if the Exchange could undertake the operation of the cafeteria and provide service adapted to meet the special requirements at Arlington Hall Station. Major Ferguson arranged for a survey by Major Adolph Bernardi, Restaurant Specialist of the Third Service Command. Negotiations with the Welfare Association failed to produce an agreement on its part to provide hot food at night, although the management expressed willingness to reopen the original school dining room in Headquarters Building, which had been closed upon the completion of the new Cafeteria Building. It was decided to have the Post Exchange undertake the operations of the cafeterias, and, with the help of Major Bernardi, personnel and

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equipment were assembled for that purpose, with the reopening of a cafeteria in Headquarters Building on 3 May 1943 as the first objective. This was achieved, and the services of an experienced Restaurant Officer, Captain J. N. Hitzel, Jr.<sup>12</sup> were secured for the Exchange operation. The Main Cafeteria was taken over by the Exchange on 1 June 1943, and shortly thereafter service was extended to provide an evening meal and later a midnight supper. Eventual enlargement of the Main Cafeteria Building in the summer of 1944 permitted the closing of the cafeteria in Headquarters Building as an aid to operating economy. The food service provided by the Post Exchange was gradually expanded to include almost 24-hour service in the Main Cafeteria, service being suspended only from 1430 to 1630 hours; a grill in the Main Post Exchange; a grill in the Branch Exchange at Vint Hill Farms Station; and four coffee bars (two prior to March 1945) in the operations buildings.

During the early months of 1945 the Administrative Officer of Arlington Hall Station, besides the perennial problem of providing adequate food service, had the equally difficult task of maintaining transportation services for the over-expanding personnel of Arlington Hall Station. During the period, new employees continued to arrive at a rapid rate, and most of the new arrivals were put to work on the swing and graveyard shifts. This required constant attention to scheduling

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12. Captain Hitzel had previously managed a restaurant at Atlantic City. On 20 December 1945 he was awarded the Legion of Merit for his services at Arlington Hall.

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of transportation, a task that had to be accomplished in the face of a severe shortage of drivers, mechanics, and equipment. To cope with the shortage of personnel on the Arnold-operated, Washington, Maryland, and Virginia Bus Lines, a program was developed for the recruitment among the employees of Arlington Hall Station of part-time bus drivers. This program was successful, and at one time (May 1945) the Arnold Bus Lines had approximately 30 part-time drivers among the employees of the Signal Security Agency.

Every possible assistance was given the Restaurant Officer in arranging additional food service for the enlarged swing and graveyard shifts. On 1 January 1945 the Arlington Hall Exchange, which in addition to the Main Exchange and its subordinate services, operated branches in the operations buildings, as well as the Main Exchange at Vint Hill Farms Station, was deprived of its Exchange Officer, Major Ernest E. Ferguson.<sup>13</sup> The Exchange was then administered by Second Lieutenant Harry C. Redding, who had been assistant to Major Ferguson, with Captain Hitzel reporting directly to the Administrative Officer.

The size of the Exchange operations at this time is indicated by the sales volume during the month of December 1944, which

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13. A Presidential Order assigned Major Ferguson to temporary duty with the military forces occupying the facilities of Montgomery Ward and Company in Detroit, Michigan. In spite of all efforts on the part of the authorities at Arlington Hall Station, it was not possible to secure Major Ferguson's release from his temporary duty.

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through camouflage or other deception, various measures were taken during and after the War to keep the nature of the operations secret. Security through secrecy discipline was one of the constantly recurring subjects for staff discussion.

In order to maintain the secrecy of its operations, the Agency relied upon careful selection of its employees, upon TAG clearance policies, and upon oaths of loyalty and secrecy. Applicants, recruited principally from universities, the United States Employment Service, and professional organizations, before being accepted for employment, were required to sign both the prescribed Civil Service Oath of Office (Tab 2e) and the special secrecy oath of the Agency (Tab 2f). Incoming employees were then subjected to TAG clearance, which was designed to eliminate all except individuals of:

1. Excellent character who were citizens, preferably native born, of the United States;
2. Who had no enemy connections with foreigners in the United States or foreign countries;
3. Whose loyalty, integrity, discretion and trustworthiness were unquestioned; and
4. Whose financial status and/or habits were such as to render unlikely their succumbing to any temptations arising from those sources.

To protect the Post from unauthorized entry, an armed guard was established at the time the AHS property was purchased. A double wire net fence, equipped with a sensitive burglar-alarm system, was built around the entire area, so that entrance could be had only through one of four gates, where guards were stationed with instructions to admit no one

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except upon proper identification. Responsibility for the physical security of the Post was delegated to the Provost Marshal.<sup>14</sup>

On 28 July 1942 Arlington Hall Station, in Post Orders No. 2, subject: Photographic Identification Badges for Civilian and Enlisted Personnel, Arlington Hall Station, established a new system of photographic identification badges (see Tab 2a) with distinctive colored mats to indicate the various categories of cleared and uncleared personnel. These were issued at once to all employees on duty at Arlington Hall Station. A few days before the transfer of the main block of SIS units to Arlington Hall Station instructions concerning the new identification system were issued in a memorandum dated 12 August 1942 and signed by Major Charles M. Blackmon, Assistant Commandant, Signal Security Division, as follows:<sup>15</sup>

1. The new colored identification badges will be worn by civilians and enlisted men at all times that the holder is on the grounds or in the buildings of this station. The proper place to wear the badge is 8 inches below and to the left of the chin, so that the guards can easily see the

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14. 1st Lieutenant Scott F. Hunkle was appointed the first Provost Marshal of Arlington Hall Station on 14 August 1942. He was followed by 1st Lieutenant Jay W. Worall, Jr. (11 May 43 - 18 Dec 45) and later by 1st Lieutenant Robert H. Kivett (18 Dec 45 - 22 Jul 46).
15. Memorandum, Assistant Commandant, SSD to all Military and Civilian Personnel, 12 August 1942, sub: Memorandum

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picture, number, and color of the badge. It must be remembered that checking identification is an important factor in the security of this station. To facilitate this is the obligation of all concerned.

2. It is the responsibility of all persons in restricted areas to see that an authorized person is present in each room during working hours. Since electricians, plumbers, etc. are required to work in all parts of the building at present, restricted areas will be construed as being only those rooms in which classified material or equipment is located. Hallways will not be considered restricted areas. These workers will wear either: (1) U.S. Government Employee orange Badges; (2) Temporary Duty Badges; or (3) Visitor's Badges. They will be permitted to enter any room requiring their services after they have knocked and proper security measures have been taken by those working inside.

It will be noted that in this memorandum no mention is made of badges for officers. During the period when the Signal Intelligence Service had been housed in the Munitions Building, admission to that building had been granted to officers upon exhibition of their AGO card; to enlisted men doubtless on the basis of the same identification, while civilian employees wore the regular War Department identification badge equipped with photograph. Personnel of the SIS, however, were furnished, in addition, special card passes also having a photographic likeness of the bearer. After the move to Arlington Hall Station began, SIS personnel continued to use these passes for admission to both the SIS areas in the Munitions Building and to

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Arlington Hall Station. At the time when the memorandum on the new identification system just mentioned was issued, all personnel, including officers, were actually issued badges of identical type, differing only in color for the different categories of restriction, but officers were not at first required to wear these badges, merely to present them for inspection by the guard at the entrances to the Post and to restricted areas.<sup>16</sup>

When the operations buildings were completed in the spring of 1943, new regulations were issued safeguarding the security of those areas. On 25 February 1943 the Executive Officer, Signal Security Service (Major J. E. Slack) issued a memorandum for all section heads, as follows: <sup>16a</sup>

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16. It is probable that officers were first required to wear their badges in the same manner as other personnel about the time when "B" Building was opened for use in May 1943.

16a. Memorandum, Executive Officer, SSS for all Section Heads, 25 February 1943, sub: Entrance Requirements, Issuing of Badges.

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1. Effective this date, entrance to the post will be regulated as follows:

a. Entrance to the grounds or buildings other than operations buildings by visitors on official or legitimate business may be authorized by any commissioned officer (as previously).

b. Entrance to operations buildings by visitors will be restricted to those persons whose business cannot possibly be transacted elsewhere. Only section heads or their designated assistants may authorize the entrance of such persons. The visitor will be issued a "visitor's badge" and must be accompanied while in the building (as heretofore), but no special pass from Headquarters Building will be required.

2. Permanent employee badges will, in the future, be issued by the Provost Marshal's Office--Room 118, Headquarters Building. For your reference, the procedure is briefly outlined:

a. New employees not permanently assigned to sections will be issued numbered "temporary duty" badges (usually yellow).

b. When these employees are assigned permanently to an operating section, they will be issued numbered photographic badges. This step will follow notification by the Personnel Department that such persons have been cleared.

This memorandum clarified the policy regarding admission to the restricted and non-restricted areas and prepared the way for the consolidation under the Provost Marshal of all responsibility for the preparation, issue, and collection of identification badges, which had previously been dispersed among the Personnel Section, the Laboratory Section, and the Provost Marshal. The practice of admitting field grade officers to the Post merely upon recognition by the Guard was ended on 10 March 1943

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by a directive from the Executive Officer. By 22 March a Badge Department had been set up in the Office of the Provost Marshal, with Mrs. Marie P. Gaydon in charge, and more precise identification badge procedure was established.

In March 1943 a question arose as to what office should be authorized to approve or disapprove those employees whose investigation placed them in the doubtful category. There seemed to be no well defined channel for such matters in that both the Adjutant's Office and the Personnel Section had on various occasions approved or disapproved assignment to one of the operations sections of persons whose records were doubtful. The Provost Marshal on 27 March 1943 addressed a  
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memorandum to the Assistant Executive Officer (Major Joseph W. Johnston) requesting a clarification on the point at issue so that a "well defined source of authority" might be established "from which to recognize persons as 'cleared' for purposes of issuing red badges". This memorandum was indorsed on 29 March by the Adjutant, SSS (1st Lt. James F. Best, Jr.) as follows:

The final authority and responsibility for the clearance of both military and civilian personnel is a function of the Adjutant.

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17. Memorandum, Executive Officer, SSS for all Field Grade Officers, 10 March 1943, no subject.
18. Memorandum, Provost Marshal for Major Joseph W. Johnston, Assistant Executive Officer, SSS, 27 March 1943, no subject.

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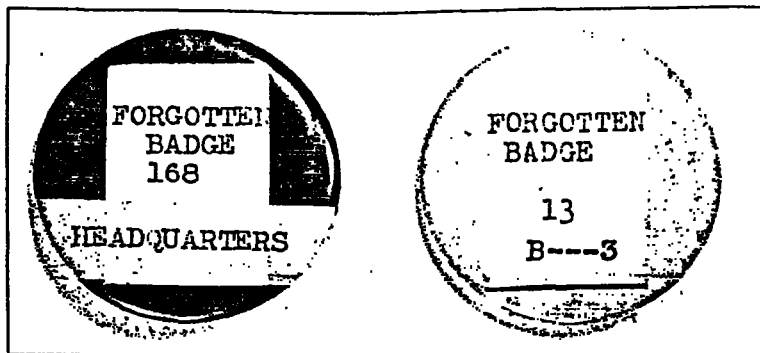
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In March 1943 a Post Intelligence Officer was designated, who was charged with all security aspects of the Signal Security Service and Arlington Hall Station except physical security, which remained the function of the Provost Marshal. It was the responsibility of this officer also to handle security instructions and orientation courses for civilians.

The completion of the operations buildings and the inflow of great numbers of newly recruited employees made it necessary in April 1943 to change the badge color code system and to further "tighten up" regulations. Both operations buildings were surrounded with wire net fences, each with two gates and guard stations, and on 21 April 1943 the checking of identification badges, which had previously been done at the main door to Operations Building was accomplished at the gates instead. The new identification system was designed to indicate both the employee's clearance status and the particular area to which the employee was assigned, so that it might be possible in each operations section to "spot" individuals not authorized to enter that section. A two-color code system was adopted and from that time until 21 December 1943, except through specific authorization of a section head, only persons wearing a badge with a red top were admitted into the operations buildings. On 21 December 1943 a new color code was

19. Memorandum, Assistant Executive Officer, SSS (Major W. Johnston) for: Colonel Harold Doud, Lt. Colonel A.J. McGrail, Lt. Colonel E.F. Cooke, Lt. Colonel H. McD. Brown, Lt. Colonel H.J. Lewis, Major J.E. Slack, Major Leo Rosen, and Mr. W.F. Friedman, April 43, subject, Checkin; Identification Operations Building "A".

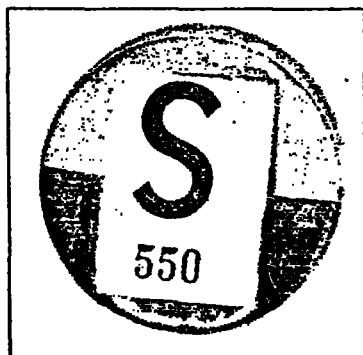
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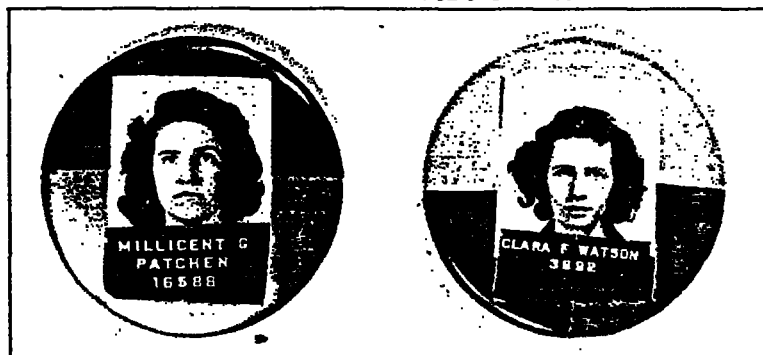
8. Effective 13 Dec 43 FORGOTTEN BADGE badges were issued in place of the TEMPORARY DUTY badges formerly issued (Nov 42 - Dec 43) to persons who came to work without their regular badges. BLACK indicated admittance to unrestricted areas, YELLOW admittance to restricted areas.



9. From 25 Feb 43 persons having legitimate business on the POST were issued a VISITOR badge. All visitors were under escort in restricted areas.

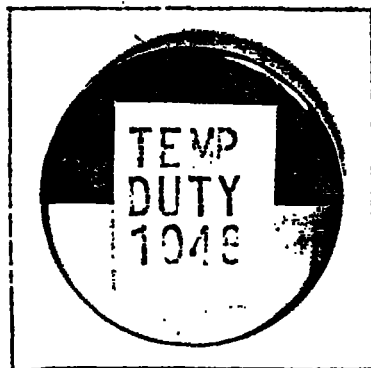


10. Effective 14 Apr 44 uncleared military personnel in the branches for training were issued badges bearing a RED "S" with mat of branch color.



11. From 6 Dec 44 badges were issued to five new branches. The color of the top half of the badges indicated clearance, as formerly. The lower half designated the branch. SILVER was used to indicate Personnel Branch, BPOWN and RED (Right above) the General Cryptanalytic Branch.

YOUR BADGE IS IMPORTANT!



This is your badge. You'll need it to get in the grounds and the place you work. Don't lose it. A lost badge in improper hands may endanger the post and those who work here.

Wear it conspicuously on the post. Guards are required to check badges. Wear yours as high on your left shoulder as possible. Always have it on your outer garment.

Never wear it off the post. We do not want outsiders to be familiar with our badges. Don't show yours or discuss it outside the post.

*Scott F. Runkle*  
 Scott F. Runkle,  
 1st Lt., Sig. C.,  
 Provost Marshal.

IDENTIFICATION BADGES WORN AT ARLINGTON HALL STATION 1942 TO 1945



1. Issued 12 Aug 42, the first AHS badges were of metal with solid color mats in RED, ORANGE, BLUE, YELLOW, and GREEN around picture, name and number.



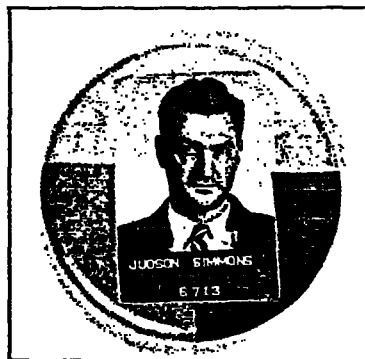
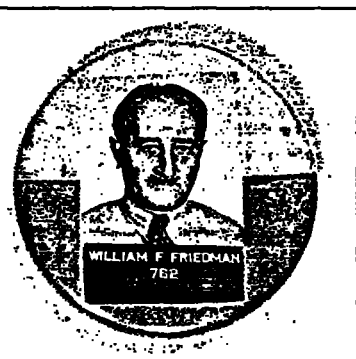
2. Only personnel with all RED badges were permitted to enter restricted areas, except by specific authorization of a section head.



3. After 10 Apr 43 RED and WHITE badges were issued to Headquarters personnel with legitimate business in one of the Operations buildings.



4. On 21 December 1943 a new badge color code system was adopted. Two colors were used in the upper half of the badges, BLACK for admission to unrestricted areas, YELLOW for admission to restricted areas. The color of the lower half of the badges indicated the particular branch to which the wearer belonged.



5. In December 1944 the badge color code was extended to meet the needs of an expanding organization. Some badges were issued in three colors.



6. This RED, YELLOW, BLUE and GREEN badge with a picture of Collange was worn by Mr. Friedman to demonstrate the inherent weakness of badge systems.



7. Forgotten badges were a source of much trouble for everyone concerned. The DONKEY badges were designed by Major A.J. McGrail to help solve the forgotten badge problem. They were used for a brief period in September and October 1942. Number 12 was first used to show weakness of the badge system.



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adopted in which badges with yellow tops designated cleared personnel while those with black tops indicated non-cleared personnel. This basic system, revised and expanded in December 1944, when distinctive badges were required for five new branches, continued until the end of the War.

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When Operations B Building was occupied, a memorandum was prepared by the Assistant Executive Officer, SSS (Major Joseph W. Johnston) for the Provost Marshal further clarifying Agency policy as regards admission to the grounds and operations buildings, as follows:

1. Hereafter, visitors to Arlington Hall Station will be admitted or permitted to leave when accompanied by a commissioned officer possessing an Arlington Hall Station identification badge provided the officer assumes full responsibility for the visitor.

2. Any person having rightful possession of an Arlington Hall Station badge will be admitted at the outer gates upon presentation of such badge.

3. No person will be admitted inside the fence line of Operations "A" and "B" buildings without presentation of the proper badge permitting access to these restricted areas. No visitor will be admitted unless expressly authorized by an officer to whom this authority has been delegated. Such officers are listed with the Provost Marshal and necessary copies of this list will be made available to the various guard posts. The visitor will be held at the fence line until called for by a commissioned officer escort designated by the officer authorizing entrance to the visitor.

4. The officer of the Guard may authorize entrance of uncleared mechanics, laborers, custodial employees, etc., to Operations "A" and "B" Buildings to perform necessary duties provided they are escorted at all times by a guard.

20. Memorandum, Assistant Executive Officer, SSS, for the Provost Marshal, 13 May 43, subject, Admission to Grounds and Operations Buildings.

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**THE SECURITY CHECK**

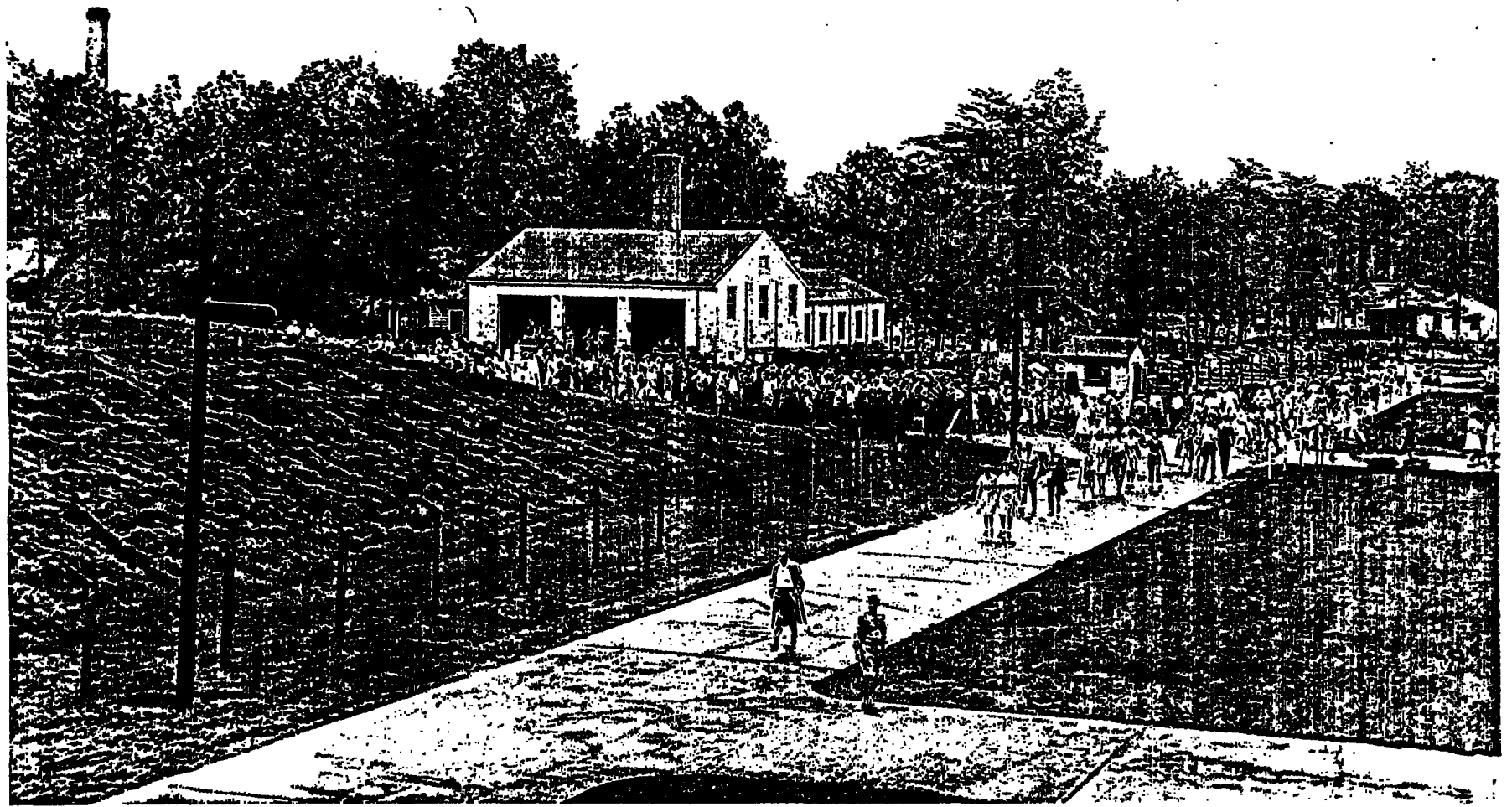
**Signal Security Agency Personnel**

**Arriving at Work**

**In Front of Operations "A" Building**

**Spring 1945**





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Owing to a shortage of cleared personnel, it was necessary frequently to admit some unclassified personnel to restricted sections for unclassified work. This practice was discussed by the staff in May 1943, but since employment of unclassified personnel in this manner was considered to be a matter of necessity, all that could be done was to use the utmost care in segregating such personnel. Colonel Gorderman requested that he be notified when uncleared personnel entered the operations buildings.

Through Post Orders No. 31, 27 November 1942, subject: Package Passes (Tab 2b) a system was introduced for checking on material carried by civilian employees or enlisted personnel from one building to another. On 10 April 1943 a system of permanent package passes was inaugurated and from that date on, pass stickers were no longer placed on packages but the bearer presented instead a card bearing his name and photograph for identification purposes. After the war, package passes were no longer required but packages were subject to investigation by the guards. Cameras were not permitted on the Post except by special authorization and no pictures could be taken except for official purposes.

In June 1943 a question arose concerning the responsibilities of the branch chiefs in relation to those of the Provost Marshal. It was decided that the responsibility of the Provost Marshal for the external security of the Agency would end at the gates of A and B Buildings and that the section heads and branch chiefs would be charged with the internal security of their respective organizations. Personnel were instructed not to enter sections where they had no official duties.

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In some sections secret and confidential papers were not properly safeguarded. It was suggested to Colonel Corderman that representatives of G-2 or of OC3igO should make a security check of Arlington Hall Station, but owing to restrictions set up by various offices, this proposal was never acted upon. However, during the week of 14 May 1945 the Agency itself, in order to test the adequacy of the security measures in force, planned and carried out its own security check. The following account of that security exercise is taken from the minutes of the Seventeenth Staff Meeting held on 22 May 1945:

In introducing the report, Colonel Slack discussed the exercise at some length. He said that two Wacs from Vint Hill, T/5 Regan and T/5 Solek, were appointed to see what they could obtain in the way of classified material and information.

Colonel Slack continued with the report by displaying a sizeable collection of classified material, including badges, collected from the Post by the two Wacs, and by giving an account of their activities. Arrangements were made for the two representatives to stay at a hotel, and they were given the suggestion that they might begin by applying for a job at the Post. This was the only assistance given, except for furnishing them with proper credentials in case they were apprehended. They were completely unfamiliar with the physical set-up of the Post and inexperienced in the type of project they were undertaking.

On Monday morning, 14 May, they came to the front gate, attired in civilian clothes, and told the guard they were looking for employment. An officer in the Personnel Branch authorized them on the Post, and they were given Visitor's Badges. T/5 Regan and T/5 Solek became acquainted with the physical lay-out of the Post, visited the PX, and talked to the employees. They discovered the type of badge required for entrance into the Operations Buildings and succeeded in obtaining extra badges left by employees on coats, in addition to their Visitor's Badges, which they altered so they could gain admittance into practically any section on the Post.

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Confining most of their activities to the swing and graveyard shifts when the personnel is scattered, they went through the various wings of both Operations Buildings and the basement of B Building, finding it easy to collect from desks and desk drawers classified material of all descriptions. Each day the material they obtained was turned into Lt. Jones, Post Intelligence Officer, so that none of it left the Post. During the time they were here they entered at random the different gates on the Post, and the various wings and sections, without being detected or challenged. At the close of their first day, the guard at the main gate called the Personnel Branch concerning the Visitor's Badges which were not returned, but this was not followed up. Of particular significance was the fact that the material which they took was not reported as missing.

This security exercise had an unexpected repercussion: news of it leaked out and an account of the test appeared in one of the Washington papers.

(Tab 2d) On the other hand, the inferences drawn from the incident prompted the staff and section heads to devise means of making employees more security conscious.

Lost and forgotten badges constituted two of the most persistent and onerous security problems during the war years. In order to impress upon all personnel the seriousness of losing a badge, to prompt more thorough search for lost badges, and to discourage the tendency of some persons to give away badges as souvenirs and then report them as lost, the Provost Marshal on 23 March 1943 recommended that a fine of one dollar be assessed persons who had lost their badges before a new one would be issued. Persons reporting to work without their badges were issued Forgotten Badge badges. Among early badges of this kind were the Donkey Badges designed to shame the forgetful ones into giving more attention in the matter of bringing their badges with them to work. Later Temporary Duty badges were used

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instead, but this practice was soon abandoned and from 6 December 1943 personnel who forgot their badges were sent to the Badge Section to receive badges appropriately colored for their respective sections and marked "Forgotten Badge". The situation as it existed on 19 November 1943 is stated in a memorandum from the Provost Marshal addressed to the Assistant Executive Office, AHS as follows:

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1. Forgotten Badges.

- a. More than 2400 instances of identification badges being left at home by employees of this post have been recorded. The number of these instances rises steadily month by month.
- b. It is believed that this increased looseness in handling of badges is due to lack of vigorous correction of habitual offenders. At present, the only corrective measure is distribution to all offenders of the attached letter.
- c. It is understood that an occasional forgotten badge cannot be avoided. However, a high percentage of these instances are charged to persons who forget their badges habitually. The records show many persons who are ten-times or more offenders in this respect.
- d. Recommend that these habitual offenders be dealt with more severely as the number of their delinquencies increase. AW 94 provides the means for handling military offenders; while 5 U.S. Code, par 563 lays down a "Table of Standard Penalties For Violation of Administration Regulations" on the part of civil service personnel. This table provides penalties ranging from one days suspension to dismissal, suggests measures for first, second and third time offenders.

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21. Memorandum, Provost Marshal for Major J.W. Johnston, Assistant Executive Officer, AHS, Subject: Recommendations, 19 Nov 43.

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**2. Lost Badges**

- a. Since the badge system was inaugurated, 213 badges have been lost out of about 10,000 issued or 2% plus. It is believed that this figure, compiled for a 14 month period, is a fairly low figure and one that cannot be greatly improved on.
- b. Recommend that a memorandum similar to the attached be issued with all new badges to impress on all concerned the importance of badge security.
- c. A new set of badges with new colors is being issued at the present time, and it is recommended that such reissues be made whenever the number of badges lost represents so great a threat to the post security that the cost is warranted.

**3. Car Stickers.**

- a. It is believed that the present car sticker system weakens considerably post security. Yesterday, three persons were apprehended on the grounds without badges, all of whom entered the post in car-stickered cars. Many other instances of security violation, due to the irresponsibility of car-sticker holders may be cited.
- b. Recommend that stickers be issued to officers of Field grade only, since these officers make up a permanent and security minded group.

The recommended memorandum to be issued with all new badges read as follows:

ARLINGTON HALL STATION  
OFFICE OF THE PROVOST MARSHAL  
ARLINGTON, VIRGINIA

**Subject: Identification Badges**

**To : All Persons Wearing Identification Badges.**

1. The attached badge represents your credential as an employee of this station. Your acceptance of this badge involves great responsibility.

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2. Obviously, if you mislay your badge it is no longer an asset to you. Instead it becomes a dangerous liability, a menace to the war effort.

3. Each of us must respect his badge for what is it - a confidential instrument that must not be lost or forgotten.

4. Keep your badge in your wallet or coin purse when you are off the post. On the post see that it is fastened firmly near the left shoulder.

5. Post Regulations state that a charge of one dollar is to be assessed each person who loses his badge. This "fine", however, is a minute cost. Consider the cost to the country should your badge fall into hostile hands.

Jay N. Worrall, Jr.,  
1st Lt., Sig. C.,  
Guard Executive Officer.

In connection with postwar planning the Signal Security Agency was faced with the serious problem of preventing the unauthorized disclosure of classified information concerning signal intelligence matters. A number of security leaks had occurred following World War I, the most far reaching of which were the revelations made by Mr. Herbert O. Yardley in The Saturday Evening Post and in his book The American Black Chamber published in 1931. Serious publicity leaks occurred in connection with the story of the Battle of Midway and the Pearl Harbor Investigations. Further revelations were expected upon demobilization of personnel who had been connected with intelligence communication security activities during World War II. It was recognized that this problem would not be solved in so far as civilians were concerned until penalties were established through

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legislative action. The Director of Communications Research (Mr. William F. Friedman) on 23 March 1943 sent the following memorandum to Colonel W. Preston Corderman, Chief of the Signal Security Agency.

1. It has come to my attention that in several instances SSA personnel have been heard to say, "What a story all this would make! I can hardly wait until the war is over."

2. Remarks such as the foregoing are obviously the result of a complete misunderstanding of the permanently binding nature of the secrecy oath taken by all SSA personnel prior to their acceptance for duty.

3. It is apparent that insufficient emphasis has been placed upon the underlined clause in the attached copy of the oath.

4. It is recommended that:

a. Immediate steps be taken to call to the attention of all officers, enlisted men, and civilian employees the fact that the secrecy oath was drawn up and is intended to be just as binding after the war as it is during the war.

b. Attempt should be made to cause legislation to be enacted with a view to accomplishing what the British Defense of the Realm Act accomplishes, viz, provides strict penalties for disclosure, without proper authority, of information detrimental to the National Defense. I think an act could be drawn to do what is necessary in this regard without infringing in any way upon the rights of free speech and now is the time. However, in drafting such legislation it is essential that technically qualified people assist in the work so as to avoid a repetition of the very unfavorable publicity that arose when something like this was attempted in 1933 in the case of a Yardley book that had to be suppressed, which led to the enactment of a perfectly futile and silly law.

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As a result of the recommendation made in 4b above, a report was prepared and submitted on 9 June 1944 to the United States Army-Naval Communication Intelligence Coordinating Committee on "The Need for New Legislation Against Unauthorized Disclosures of Communication Intelligence Activities,"<sup>23</sup> To further strengthen the security of the Signal Security Agency the policy was adopted of requiring personnel separating from the Agency to sign again the security oath which they had signed upon entering the Agency.<sup>24</sup>

In the early days the security policy at Arlington Hall Station, based upon AR 380-5, had as its objective the highest possible degree of secrecy and concealment. The very existence of the station was not to be mentioned outside the gates. As time went by, however, some of the restrictions were relaxed in the interests of efficiency in operations, recruitment, and liaison. While absolute security was not achieved, the experience of the Signal Security Agency in World War II demonstrated the wisdom of perpetually evaluating and improving security measures, balancing the ideal against practical considerations.

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22. This report was the outcome of a study of the subject by a committee consisting of Lt. (j.g.) John V. Connorton, USNR, representing the Navy and Lt. Floyd W. Tomkins, Jr., AUS, representing the Army.
23. A full account of the attempts by ANCICG and ANCIB to secure legislative action in this field may be found in a study made by the ASA Historical Unit entitled "The Safeguarding of Signal Intelligence and Communication Security through Legislation against Unauthorized Disclosures".
24. Prior to October 1946 military personnel had not been required to sign a security oath.

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H. In Retrospect<sup>25</sup>

The choice of Arlington Hall as the site for the Army's signal intelligence center was based primarily on the following considerations (Tab 1):

1. The property was large enough to provide space for expansion;
2. Being located on the outskirts of the metropolitan area, Arlington Hall was reasonably secure both from the activity of enemy secret agents and from possible enemy bombing missions;
3. The location was in the vicinity of the Primary Eastern Monitoring Station<sup>26</sup> and of government agencies with which the Signal Intelligence Service had frequent dealings;
4. In the Washington-Arlington area there were housing and transportation facilities for Agency personnel and their dependents.

There were a number of disadvantages to the site chosen, some of which might have been avoided had a different location been chosen.

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25. The following paragraphs owe much to a Memorandum for the Commanding Officer, Signal Security Agency, by Lieutenant Colonel James E. Slack, Administrative Officer, dated 13 November 1944 (Tab 1). This memorandum, which grew out of informal discussions of high-ranking officers of the Agency, recommended consideration of the Chicago area as a better location for the Agency. No action was taken on the memorandum.
  26. The establishment of the Primary Eastern Monitoring Station at Vint Hill Farms Station was being planned at the time (18 April 1942) the TAG letter was written directing that a site be selected for the Army's signal intelligence center. Vint Hill Farms Station was activated when detachments were transferred to Vint Hill from Fort Hunt, Virginia (18 June 42) and from Fort Monmouth, New Jersey (1 July 42). For information concerning the monitoring stations that preceded Vint Hill Farms Station, see volume Thirteen (Intercept and Communications) of the SSA History.

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The fact that Arlington Hall Station was located in the Military District of Washington subjected the Agency to whatever personnel policies were in effect for the District. One regulation, known colloquially as the "Child Labor Law", provided for the removal to other assignments outside MDW of officers under 28 years of age. As the Agency had among its skilled technicians many officers who were in this category, much time was consumed by the administrative officers in obtaining exceptions to the provisions so that these officers might be retained on important assignments.

Moreover, the Military District of Washington was on several occasions included in Army Service Forces plans for reduction in personnel. As frequently happened, notice of ASF-directed reductions in force was frequently received at the same time that G-2 was directing increases. Had the Signal Security Agency been located outside the Military District of Washington, much of this difficulty might have been obviated.<sup>27</sup>

Keen competition with other Governmental agencies in the area for civilian personnel hindered recruiting and was a factor in the resignation of many highly-qualified key civilian personnel (as well as civilian personnel as a whole) who found opportunities for advancement in other agencies. Personnel policies varied considerably among Government departments, and the Signal Security Agency was not always

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27. This applies to local policies and local applications of ASF directives only.

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able to meet this competition with better offers.

The difficulty of finding a cafeteria management willing to cope with the disadvantage of long-haul deliveries of food, scarcity of Negro labor (which preferred to live and work in the District of Columbia), and the difficulty of providing food service on a three-shift basis, became a big problem which might in part have been avoided in another location. Transportation facilities, despite great efforts on the part of this Agency and the whole-hearted cooperation of the bus companies were not so good in Arlington County as elsewhere, since the existence of more than one company, with resulting double fares, tended to increase the living expenses of employees of the Agency.

These disadvantages of the location that was actually selected might have been avoided had a site been chosen in a city removed from Washington. An office building might have been acquired by the Government in which all Signal Security Agency activities could have been housed more satisfactorily or at least as well as at Arlington Hall Station. Yet such a course would have been in many ways decidedly less to be preferred, since the closer contact with the War Department, which a site in Arlington assured, would have been lost, and it is conceivable that at any other site even greater disadvantages might have been experienced which would have created more serious problems.

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Nevertheless, viewed in the light of the Agency's wartime experience, the decision to locate the Headquarters of the Signal Security Service at Arlington Hall Station seems fully justified. The space available for expansion was ample. The security requirements were also fulfilled. As it later proved, enemy bombing missions was only a hypothetical peril that had to be reckoned with. The danger from the attentions of enemy secret agents was minimized by the guard, by the identification system, by the fences and alarm system, and by the work of the Post Intelligence Officer. If any enemy agent ever attempted to gain access to the premises, the incident remains unknown.<sup>28</sup> The providing of transportation and housing for Agency personnel, though never easy, was accomplished in a fairly satisfactory manner with the cooperation of the Arnold Bus Company and the housing agencies of the War Department and the government.

The proximity of the post to Vint Hill Farms Station and to the Washington area greatly facilitated liaison and direct contact with the following offices and installations:

1. The Primary Eastern Monitoring Station, which served as a convenient laboratory for the testing of new equipment and techniques.
2. The Office of the Chief Signal Officer, which made possible close coordination with various Signal Corps organizations on such matters as military and civilian personnel, supply, finance, and radio engineering.

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28. Opinion expressed to the Historian, AS-13 by Lieutenant Robert H. Kivett, Provost Marshal, Arlington Hall Station on 12 April 1946.

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3. The Military Intelligence Service, which enabled rapid transmission and coordination of operating instructions and fast and frequent delivery by officer courier of Bulletin material.

4. The Navy Department, the Coast Guard, the Office of Censorship, the Federal Bureau of Investigation, and various British missions, which facilitated exchange of vital communications information and liaison on intelligence and security matters.

5. The Office of the Secretary of War, which provided trained nurses, operating equipment, and hospital facilities for emergency medical treatment of the large civilian component of the Agency.

6. Walter Reed Hospital, which provided specialized medical care for the military personnel of the Agency.

7. Fort Myer, Virginia, which provided Arlington Hall Station with essential quartermaster, hospital, and engineering services, and personnel.

8. The War Production Board, which expedited the obtaining of priorities to greatly accelerate construction work at Arlington Hall.

9. The Office of the Chief of Engineers, which expedited construction work at Arlington Hall Station, Vint Hill Farms, and other SSA installations and which provided liaison with reference to certain exceptions to standard construction policy which were made necessary by the specialized character of the work of the Signal Security Agency.

10. The Civil Service Commission, which procured and classified thousands of civilian employees for the Agency.

The close contact the Agency maintained with the offices and agencies mentioned above was a factor of no little importance in keeping operations at a high level of productiveness with a minimum expenditure of time and money in maintaining liaison. In the field of research and development and procurement of cryptological equipment, on the other hand, liaison with contractors and manufacturers, many of whom had their laboratories or factories in places not so readily accessible to the Headquarters of

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the Signal Security Agency, proved to be both expensive and time-consuming. It would seem therefore that, should the Agency in future find it advisable to move its headquarters from Arlington Hall to some other location, the planning for such a move would include a careful weighing of the advantages assured by proximity to those officers and installations with which the Agency shall at that time have need for liaison against the possible disadvantages of such proximity. It would also include, without a doubt, provision through electrical means for such necessary liaison as could not adequately be maintained through personal contacts.

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~~WAR DEPARTMENT~~~~SECRET~~The Adjutant General's Office  
Washington 25, D. C.

AG 323.3 (17 Sep 45)OB-S-B

KHE/lq 2B-939 Pentagon

21 September 1945

SUBJECT: Reclassification of Arlington Hall Station and Vint Hill Farms Station, Virginia, and Two Rock Ranch Station, Petaluma, Calif.

Auth: T. A. G.  
Initials: AJR  
Date: 21 Sep 45

TO: Chief, Army Security Agency

Pursuant to War Department letter, AG 322 (4 Sep 45) OB-S-E-M, 6 September 1945, subject: Establishment of Army Security Agency, Arlington Hall Station, Arlington, Virginia, Vint Hill Farms Station, Warrenton, Virginia and Two Rock Ranch Station, Petaluma, California are reclassified, effective 15 September 1945, as special installations under the control of the Chief, Army Security Agency, in accordance with AR 170-10 paragraph 6a(5). The Commanding Generals of the appropriate Service Commands will furnish such administrative assistance and housekeeping facilities as may be requested. Letter, AG 322.08 (24 Jul 42) MR-M-SP, 7 August 1942, subject: Designation of Arlington Hall Station and Vint Hill Farms Station, Virginia, and letter, SPA 322.03 (24 Jul 42) MR-M-SP, 7 August 1942, subject: Establishment of Primary Monitoring Station, Two Rock, Petaluma, California, and any other previous instructions in conflict with the foregoing are superseded.

By order of the Secretary of War:

/s/ A. J. Rehe

Adjutant General

## COPIES FURNISHED:

Commanding General, Army Services Forces  
Commanding General, Third Service Command  
Commanding General, Ninth Service Command  
Commanding General, Military District of Washington  
Divisions of the War Department General Staff  
Chief Signal Officer  
Chief, Military Intelligence Service

~~SECRET~~HEADQUARTERS ARLINGTON HALL STATION  
Office of the Commanding Officer  
Arlington, Virginia

SPSIS-2

13 November 1944.

MEMORANDUM for Commanding Officer, Signal Security Agency.

Subject: Location of Signal Intelligence Activities.

I. DISCUSSION.

1. Problem: Is Arlington Hall the ideal location for the Signal Intelligence Activities of the War Department, or are there other more suitable locations?

2. History:

a. Before the declaration of war on 7 December 1941, plans were being considered for establishing the Signal Intelligence Service in new and more suitable quarters which would provide room for expansion. Upon the actual commencement of hostilities, it was generally realized that a location other than the one then occupied in the Munitions Building was immediately necessary. Provision of a much higher degree of security and a great increase in space were obvious requirements. Plans were drawn for a move to the Pentagon Building, then under construction, but were abandoned when it was determined that possible space needs of Signal Intelligence activities might be in excess of the space that could be made available. On 18 April 1942, a letter directive from The Adjutant General, subject, "Expansion of the Signal Intelligence Service", was received. This directive stated in part:

"Every effort should be made to complete the processing of cryptographic material once the codes and ciphers have been broken, including translation and furnishing the information derived therefrom to A. C. of S., G-2, for intelligence usage.

It is desired that a study be made looking to the removal of your Signal Intelligence Service activities, now established in the Munitions Building, to a place outside of the city of Washington where it will be more secure from bombing or from the attentions of enemy agents. This site should preferably be not more than one hour and thirty minutes journey by automobile from Washington and, if practicable, in the vicinity of your Eastern Primary Monitoring Station."

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b. Immediate action was taken by the Officer in Charge of Signal Intelligence Service to inspect suitable properties which conformed to the specifications contained in the directive from The Adjutant General. Arlington Hall Junior College was inspected by officers of Signal Intelligence Service in May 1942, and after the site was also approved and inspected by Military Intelligence Service and the Chief Signal Officer, it was acquired by the Corps of Engineers on approximately 14 June 1942. A small guard detachment from Second Signal Service Battalion immediately took over the installation. Signal Intelligence Service moved to Arlington Hall (present Headquarters Building) in increments from its cramped and crowded quarters in the Munitions Building. Immediate action was taken to secure approval for construction of the new buildings necessary to house the expanded activities of Signal Intelligence Service. Construction of Operations "A" Building was begun on 4 August 1942. The building was partially completed and occupied by 16 November 1942.

c. However, additional signal intelligence missions were assigned and further expansion directed by G-2 in November 1942, and it was necessary to provide space for increased personnel. Construction of Operations "B" Building was begun on 4 December 1942, and was ready for partial occupancy by 15 March 1943. Other construction, including conversion of barracks for WAC personnel, semi-permanent WAC housing, a new warehouse, and cafeteria, has followed almost continuously as activities and personnel have continued to expand.

### 3. Limitations on Locating Site of SIS Activities:

a. As indicated in The Adjutant General's directive of 18 April 1942, the following factors made the selection of a new location mandatory:

- (1) Increased space requirements.
- (2) Increased physical security of such a nature as to reduce the danger from attentions of enemy agents.
- (3) Removal of the SIS operations from a congested area which was at that time considered a possible target for enemy bombings.

b. The Adjutant General's directive established the following conditions desirable for the new location of Signal Intelligence activities:

- (1) The site to be not more than one hour and thirty minutes journey by automobile from Washington.

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- (2) The new location should be accessible to the Primary Eastern Monitoring Station, which at that time, was located at Fort Hunt, Virginia. (Plans were already under consideration to move the Primary Monitoring Station to Vint Hill Farms Station, Warrenton, Virginia.)

4. Factors Influencing the Choice of Arlington Hall Station for SIS Site:

a. The selection of Arlington Hall Station was made in conformity with the directive referred to above, as a result of informal surveys carried on by the Officer in Charge and his staff, together with subsequent inspection of the premises by G-2 and by the Chief Signal Officer. Documentary evidence of these surveys is not available, but in reviewing the history of Arlington Hall Station since that date, the following factors are considered as having made the selection a logical one:

- (1) Proximity to the Washington area made it possible to maintain close liaison and direct contact with the following government agencies and proved of great value for the reasons indicated:
  - (a) War Production Board - which expedited the obtaining of necessary priorities to greatly accelerate construction work costing approximately \$4,500,000.00.
  - (b) Office of the Chief of Engineers - which has enabled the expediting of construction at Arlington Hall Station and other SIS field installations, and has provided close liaison concerning various exceptions from standard construction policy, which are necessary for the specialized work of Signal Security Agency.
  - (c) Fort Myer, Virginia - which provided Quartermaster, Hospital and Post Engineer services, and avoided a costly duplication of facilities and personnel at Arlington Hall Station.
  - (d) Office of the Chief Signal Officer - which has made possible close coordination with various other Signal Corps organizations on military and civilian personnel, supply, fiscal, radio engineering matters, etc.

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- (e) Civil Service Commission - which expedited the recruitment and classification of 8,369 civilian personnel, to date.
  - (f) Walter Reed General Hospital - which, together with the Station Hospital at Fort Myer, provided excellent medical care for military personnel and obviated a regular Post Hospital at Arlington Hall.
  - (g) Secretary of War's Office - which provided trained nurses, operating equipment, and hospital facilities for the emergency medical treatment of the large number of civilian personnel.
  - (h) Military Intelligence Service - which enabled rapid transmission and coordination of operating instructions and important intelligence between SIS Headquarters and G-2.
  - (i) Navy Department, Coast Guard, Office of Censorship, Federal Bureau of Investigation, State Department, and various British Missions were readily available for the exchange of vital communications information, resulting in improved operating methods and close liaison on intelligence and security matters.
- (2) Proximity to Vint Hill Farms Station (now the location of the Primary Eastern Monitoring Station) enabled the assignment of intercept missions, receipt of information, training in radio operation and cryptographic and crypt-analytic methods to be more effectively carried out as a result of the accessibility of this station.
- (3) The availability of land on the reservation for the erection of new buildings and of additional tracts of land in the vicinity which could be leased or acquired as further expansion became necessary, gave flexibility to operations at Arlington Hall Station.

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- (4) Arlington County Housing facilities, which, although located in an overcrowded area, were capable of continued expansion. Housing within the District of Columbia was very scarce because the city was extremely crowded as a result of expanded government agencies. The location of SIS activities in Arlington County enabled the Signal Security Agency to find housing more readily than it could have in the District of Columbia. Hundreds of rooms in private homes were made available throughout the Arlington, Falls Church and Alexandria area. Also, this region, which is convenient to Arlington Hall, has had a large proportion of apartments and other defense housing projects completed within the last two years. Because these facilities are new and modern, the standard of housing is probably better than that to be found in Washington, or a more isolated location not possessing such a reserve of housing facilities.
- (5) The prospect of working in the Washington area, in which the Nation's Capitol is located, and which is the center of affairs of world-wide importance, has acted as an attraction to aid both in the recruitment of new civilian employees and in the direct recruiting of WAC personnel throughout the country.
- (6) Because of the existence of permanent buildings which were suitable for immediate occupancy upon minor alteration; i.e., the present Headquarters Building, old warehouse and gymnasium, it was possible to move Signal Intelligence activities at a much earlier date than if a site had been selected at a location without suitable existing buildings.
- (7) Under the assumption that the personnel of the Signal Security Agency will be reduced after the cessation of hostilities, excess office space can be utilized for secure storage of cryptographic machines and classified records of the Signal Security Agency.

b. The following disadvantages have become apparent because of the location of SIS activities in the Washington area, and which might have been partially overcome by choosing a location outside of the Military District of Washington:

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- (1) The conflict with the military personnel policies of the War Department applicable to the Washington area, consumed considerable time and attention of key personnel. Example of such policies was the removal from the Washington area of officers under twenty-eight years of age. As the Signal Security Agency was a rapidly expanding organization, it had depended largely on graduates from Officer Candidate School and language schools. As a result, officer personnel of Signal Security Agency was predominately young personnel. As these officers had been trained in SIS work, the mission of Signal Intelligence Service would have been seriously handicapped if forced reduction had been applicable, as all training and experience of these officers would have been lost. Also, the Military District of Washington was included in plans for reduction of personnel within Army Service Forces. As a result, the Signal Security Agency often received notice of reduction of personnel from Army Service Forces at the same time G-2 was directing increases.
- (2) Keen competition with other government agencies for civilian personnel has hindered local recruiting and has been a big factor in the resignation of highly qualified key civilian personnel, as well as civilian personnel as a whole. Personnel policies varied considerably among government departments, and the Signal Security Agency was not always able to meet this competition.
- (3) The difficulty of finding a cafeteria management, willing to cope with the disadvantage of long haul deliveries of food, scarcity of Negro labor (which prefers to live and work in the District of Columbia), and the difficulty of providing food service on a three-shift basis, became a big problem in providing food and maintaining high morale of civilian workers.
- (4) Transportation to and from work is not as good in Arlington County as in some areas. The large number of bus companies with the resulting double fares, and the inadequate equipment of these companies were major factors in the difficulties of supplying adequate public transportation.

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- (5) The buildings at Arlington Hall are temporary structures lacking air conditioning and other improvements and conveniences which might have been obtained in a modern permanent type of building at another location.

c. As indicated in paragraph 2-a above, the Pentagon was once considered as a possible location of SIS activities. However, locating within the Pentagon would not have complied with The Adjutant General's directive of 18 April 1942, but would have provided most of the advantages listed in paragraph 4 above. Plans for the expansion of SIS activities have been frequently increased on short notice and have entailed unexpected space requirements. It is doubtful if these additional missions could have been assumed and the resulting personnel expansion accommodated without serious dislocation of other War Department activities located in the Pentagon.

d. If Signal Intelligence Service activities had been located at some point on the outskirts of a large metropolis, the following advantages would have been obtained:

- (1) Transportation facilities are more highly developed and the presence in a larger city of railroad facilities for commuters, extensive street car lines, as well as bus routes, would have made this problem less pressing than in the relatively undeveloped area in the environs of Washington.
- (2) If the location of Signal Security Agency activities was, for example, in Chicago, there would be far fewer interruptions by higher echelons in the War Department with the work of key personnel. Although the organization would have continued as a field agency of the Office of the Chief Signal Officer, and under operating directives of Military Intelligence Service, greater autonomy would prevail and the work would be performed with less opportunity for non-essential discussions and conferences called by higher headquarters. Such meetings as necessary could have been accomplished at regularly scheduled times. Similarly, the administrative services of the organization would not be subject to the severe restrictions placed upon them in Washington, where all activities are subject to close political scrutiny. Personnel policies and ceilings as previously pointed out are not as rigid in other localities, and competition with other government agencies is not as severe. However, in certain categories of personnel, there would be more competition with war industries.



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- (3) Housing in Chicago is more plentiful than in this area, as that city was overbuilt in the period between 1920 and 1930, and only with the war demand for housing have conditions become crowded. The Washington area, in contrast, was congested even before the war, as the increase in government functions had taken up any vacancies existing in the period between 1930 and 1940.

#### 5. Conclusion:

In view of the many administrative problems encountered, it is thought that a location in or near Chicago, Illinois, would be the ideal location for the permanent site of Signal Intelligence activities for the following reasons:

a. Experience has shown that recruiting of civilian personnel has been most productive in the midwest area. Chicago is the principal city and trading center in this district. The best type of personnel for SIS work have been recruited in this area, as educational standards are higher here than in most other parts of the country.

b. Chicago is a communications center, and adequate facilities are available for all types of communication, which are essential for SIS operations.

c. Because of its size and the considerable over-expansion of building which took place there during the 1920's, housing facilities both for operations and living quarters would be more readily available in Chicago than in most alternative locations.

d. Chicago and the surrounding industrial area, form one of the greatest manufacturing centers in the United States. Many of the largest contractors specializing in the type of equipment used by SIS are located in this area. Deliveries of materials and procurement in general would be aided by location of SIS in this region.

e. Railroads and air lines all use Chicago as a terminal point, and its location midway in the United States makes either the Pacific coast or eastern seaboard only a few hours journey by air. In addition, local transportation facilities are highly developed with commuters' trains, street cars, elevated lines, a subway, and extensive bus routes, all providing transportation in and around Chicago.

f. Considerable autonomy would necessarily result if the SIS organization were outside of the immediate jurisdiction of the Office of the Chief Signal Officer. Liaison on policy matters would

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be afforded by the establishment in the Pentagon of a strong organization within the Office of the Chief Signal Officer to represent SIS. Many special problems of SIS are completely different from those of the Signal Corps, and the location of SIS at a point where these matters could be handled locally without creating an exception to policies of the Office of the Chief Signal Officer would be beneficial.

g. A stronger organization representing the Assistant Chief of Staff, G-2, would be located within SIS itself to effect closer liaison with operating divisions.

h. The numerous and varied recreational facilities available in Chicago would be considered as a contributing factor to the health and morale of employees.

## II. ACTION RECOMMENDED.

In view of the above, it is recommended that a site in or near Chicago, Illinois, be considered as the most favorable location for the permanent site of Signal Intelligence activities.

*J. E. Slack*  
J. E. Slack,  
Lt. Colonel, Signal Corps,  
Administrative Officer.



Guard  
July 28, 1942.Arlington Hall Station  
Post Orders No. 2.Photographic Identification Badges for Civilian and Enlisted Personnel,  
Arlington Hall Station.

1. Badges shall be of the Graflex Tamper-Proof type.
2. All civilian and enlisted personnel assigned to Arlington Hall Station will wear photographic identification badge at all times while in the confines of Arlington Hall Station. Badges will be worn on exterior of clothing to be easily visible at all times.
3. All badges will bear a serial number, such numbers starting from 1 and progressing serially. There shall be no duplication of numbers. In case a badge is lost, and it is necessary to issue a replacing badge, the replacing badge shall bear a new number. The numbers shall be photographed on the name plate of each badge.
4. Badges will have colored mats to distinguish various classes of employees, as follows:
  - a. RED--Civilians and enlisted men with access to restricted areas.
  - b. ORANGE--
    - (1) Civilians and enlisted men in Administrative Section who do not have access to restricted areas.
    - (2) Enlisted men of 2nd Signal Service Battalion who do not have access to restricted areas, including guards.
  - c. YELLOW--Students, civilian or enlisted men who have access to school areas only.
  - d. GREEN--Custodial help with access to buildings, but without access to restricted areas unless accompanied by authorized person.
  - e. BLUE--Kitchen help, access to kitchen and cafeteria area only. Custodial, temporary, drivers, laborers, etc., who have access to no Signal Security Division office buildings unless accompanied by authorized person.

HEADQUARTERS ARLINGTON HALL STATION  
ARLINGTON, VIRGINIA

November 27, 1942

POST ORDERS )

NO. 31 )

Subject: Package Passes

1. Effective November 29, 1942 at 0700 the following instructions will be observed:

a. Each civilian employee and each enlisted man having occasion to carry a package or papers of any description from either the Headquarters or the Operations Building at this station shall present the package to his commissioned subsection head or section executive officer for inspection.

b. If the material in the package may be taken from the building the subsection head or section executive officer shall prepare a Package Pass (sample attached) by entering the date, the name of the bearer, and his signature.

c. The subsection head or section executive officer shall personally affix the pass to the package, placing the gummed section in such a manner that the package cannot be opened without mutilating the pass.

d. The sentry on duty at the building exit shall check that the Package Pass bears an authorized signature and shall tear the pass from the package, leaving only the gummed strip of paper attached to the package.

e. The only exception to be made to this procedure shall be lunch boxes regularly carried by employees which will not require a pass; however, the sentry will continue to make a close inspection of all lunch boxes.

f. Each section head shall have a list prepared promptly showing the typed name and individual signatures of himself and his commissioned subsection heads authorized to issue passes. This list of names shall be held to a minimum. The list shall be forwarded directly to the Provost Marshal, Arlington Hall Station.

g. Each section will be furnished with a supply of the blank pass forms. These blank forms shall be treated as classified and kept under lock.

h. Civilian employees or enlisted men arriving at the Headquarters with personal hand luggage shall be required to check it in the Guard Office, Room 119. At the Operations Building, luggage shall be checked at such a place as the Provost Marshal may designate, pending the occupancy by the guard of its permanently assigned quarters.

i. The Provost Marshal is charged with the duty of checking all Package Passes on the day following their issuance and of maintaining a permanent file of these passes. Any irregularities observed in the check shall be reported to the Adjutant.

By order of Colonel Bullock:

*James F. Best, Jr.*  
James F. Best, Jr.,  
1st Lt., Signal Corps  
Asst. Adjutant.

ARLINGTON HALL STATION  
ARLINGTON, VIRGINIA

**PACKAGE PASS**

Date \_\_\_\_\_

*The bearer of this package*

is permitted to remove same from premises. It contains no material compromising the security of this headquarters.

Subsection head.

(Fill in above in ink)

5. A record shall be maintained of each badge issued, including name of person, date of issue, number of badge, and color of badge. An immediate report shall be made of any badge lost or found.

6. Every person who possesses a War Department photo badge shall be required to turn in such badge when issued a new Signal Security Service badge. The special Signal Security Service pass shall also be turned in when receiving the new photo badge.

7. Effective with use of new badge, only officer personnel will be in possession of special Signal Security Service passes.

*Frank W. Bullock*  
Frank W. Bullock,  
Colonel, Signal Corps

HEADQUARTERS ARLINGTON HALL STATION  
OFFICE OF THE COMMANDING OFFICER  
ARLINGTON, VA.

March 31, 1943.

POST ORDERS )

NO. 9 )

1. Effective April 1, 1943 a charge of \$1.00 will be assessed against each member of the military or civilian personnel of this Station requiring replacement of a lost badge.

2. This action is necessitated by the increasing number of identification badges lost by personnel of this Station. The materials from which badges are made are on the critical list and are both difficult and expensive to procure. In addition, valuable time is being lost from the war effort both by the person who has lost the badge and by the personnel who must devote time to preparing records of such cases and issuing badge replacements.

By order of Colonel Corderman:

*James F. Best, Jr.*  
James F. Best, Jr.,  
1st Lt., Signal Corps,  
Adjutant.




PASSES AND PERMITS USED AT ARLINGTON HALL

ARLINGTON HALL STATION  
OFFICE OF THE PROVOST MARSHAL  
ARLINGTON, VIRGINIA

No. 2 Date April 16, 1943

The bearer, Wm. J. Beall  
is permitted to carry packages  
from "A and B" Building



*Scott F. Runkle*  
Scott F. Runkle  
1st Lt., Sig., C.,  
Provost Marshal

THIS PASS NOT GOOD AFTER JUNE 30, 1943

ARLINGTON HALL STATION  
ARLINGTON, VA.

PACKAGE PASS

This will permit the bearer

George E. Jackson

to carry packages from

"A" "B"

buildings.

*Scott F. Runkle*  
Provost Marshal

No. 155

Tools and parts only

Not good for papers.

ARLINGTON HALL STATION  
OFFICE OF THE PROVOST MARSHAL  
ARLINGTON, VIRGINIA

This will permit T-4 Elsie Shoppee with a LABORATORY  
BRANCH BADGE to carry a camera in "A" building to  
Room 2072-A or on the grounds of this POST.

EXPIRES

DEC 31 1946

*Robert H. Kivett*  
Robert H. Kivett  
1st Lt., Sig. C.,  
Provost Marshal

THIS DOES NOT PERMIT THE BEARER TO TAKE PICTURES  
ANYWHERE ON THE POST

Hush, Hush? Pish, Tush!

## 'Secret War Documents Prove About as Hard to Get as a Cold

Two Wacs, acting on the orders of a high-ranking Army officer, last week exposed glaring weaknesses in existing Government security regulations. The details of the story read like fiction, but a few red-faced Army officers could testify, that this one really happened.

The actors in this exciting drama are "Colonel X," and two comely Wacs. Colonel X is in a very hush-hush agency which it seems best to call PDQ.

A few weeks ago, Colonel X became skeptical as to the efficiency of security regulations at PDQ. He knew that strictest secrecy was required, for much of the material handled at his agency was very important to the war effort. The colonel decided to check on the security and finally came up with a scheme which seemed both simple and direct.

One day last week Colonel X obtained the services of two Wacs who were stationed at a nearby Army post. Swearing them to secrecy, he told them that he wanted to find out one thing—were the security regulations at PDQ adequate?

The colonel gave them enough money for civilian clothes and arranged hotel accommodations for them in Washington, the latter no mean feat. After a few simple instructions, they were on their own.

Bright and early next morning, the two girls walked out of a down-



town hotel and started for PDQ. They boarded a bus already packed with Government workers bound for the same place. Discreet inquiries from some fellow passengers revealed that PDQ was in dire need of workers. The jobs were very secret and fascinating. They couldn't tell what they did, because it was so—well, they just couldn't tell.

Upon alighting from the bus, the Wacs followed the crowd to the main entrance. Formidable, armed guards were carefully checking every person who entered. Everyone had to have a badge, and besides all the badges weren't alike. Some had differently colored borders around the picture of the wearer.

The Wacs, (in sheep clothing),  
See SECRET, Page 2, Column 7

## SECRET

From Page 1.

asked one of the guards where they could apply for a job. They gave fictitious names and were issued visitors badges. The guard courteously told them where they would find the employment office.

Our two heroines conveniently got lost, and finally found themselves in the cafeteria. They noticed that many girls would lay aside their outer garments, not removing their precious identification badges. It was a simple matter to choose two badges, but picking out pictures which somewhat resembled them took almost 20 minutes.

The Wacs donned the stolen badges and pocketed their visitor badges. Then they made a tour of all the offices which would admit them with their purple and green badges. Here and there they picked up documents which people had left lying around. They soon found out, however, that a black and violet badge would admit them to any office in PDQ. They talked it over and decided to leave for the day. On their way out they put on their visitor badges and put the stolen badges in their purses.

At the hotel that night the girls were very busily engaged in past-

ing strips of black and violet paper around the pictures on their stolen badges. They covered them again with cellophane and they were all set.

The next day was a busy one. The two Wacs worked day, swing, and graveyard shifts. They would lift some secret documents and make a note of where they got them and what time it was. They covered practically every office at PDQ, and they were amazed at how easy it was to get important war documents, merely by requesting them.

The next day the Wacs turned over all their notes of their pilfering and all the evidence to Colonel X. He was so astounded that he made the Wacs tell him their story twice. A careful examination of the evidence showed that much of the material stamped as secret was hardly that, being greatly overclassified. But there was enough really important stuff picked up to give aid and comfort to the enemy.

Colonel X now had a hot potato on his hands. The very next day things started popping. PDQ employes began scrutinizing the badges of their fellow workers. The crimson flush mounting on some very important countenances would make a neon sign look like a fire-fly.

THE WASHINGTON POST

No. 25,184, 29 May 1945



SUPPLEMENTARY DATA: (Items 28 thru 42 to be filled in only when routine or special character investigation is required)			
28. OTHER NAMES (Include maiden name or alias)		29. PLACE OF BIRTH	
		30. COLOR HAIR	31. COLOR EYES
PERMANENT HOME ADDRESSES FOR PAST FIVE YEARS		33. U. S. CITIZENSHIP	
JM-	TO-	STREET-CITY-STATE	
		NATURALIZED CITIZENS COMPLETE FOLLOWING CERTIFICATE NO.	NONCITIZENS COMPLETE FOLLOWING ALIEN REG. NO.
		DATE OF ISSUE	DATE OF ENTRY
		PLACE OF ISSUE	PORT OF ENTRY
34. HAVE YOU EVER BEEN ARRESTED, SUMMONED INTO COURT AS A DEFENDANT, INDICTED, CONVICTED, IMPRISONED, OR PLACED ON PROBATION? <input type="checkbox"/> YES <input type="checkbox"/> NO If "yes", attach list of all cases except minor traffic violations giving (1) date, (2) place where alleged offense or violation occurred, (3) name and location of court, (4) penalty imposed. Include arrests by military and naval authorities, and disciplinary action imposed by courts martial.			
35. HAVE YOU EVER BEEN FINGERPRINTED? <input type="checkbox"/> YES <input type="checkbox"/> NO		IF "YES" STATE WHERE	36. HAVE YOU EVER BEEN DISCHARGED OR ASKED TO RESIGN FROM ANY POSITION? <input type="checkbox"/> YES <input type="checkbox"/> NO IF "YES" ATTACH DETAILS
37. RELATIVES (List following members even though deceased)			
	NAME IN FULL	ADDRESS	COUNTRY WHERE BORN
FATHER			
MOTHER			
SPOUSE			
CHILDREN			
PARENTS-IN-LAW			
BROTHERS AND SISTERS			
FOREIGN COUNTRIES VISITED SINCE 1930			
COUNTRY	DATE LEFT U. S. A.	DATE RETURNED	REASON FOR VISIT
39. ORGANIZATION MEMBERSHIP (Do not list religious, or political party, affiliations)			
NAME OF ORGANIZATION	PURPOSE	ADDRESS	YEARS MEMBER (From-To)
REFERENCES (Give names of three responsible citizens, not relative or employer, who have known you at least 5 years)			
NAME	ADDRESS	OCCUPATION	YEARS KNOWN
41. POSITION TITLE		DOES POSITION INVOLVE ACCESS TO CONFIDENTIAL OR SECRET MATERIAL? <input type="checkbox"/> YES <input type="checkbox"/> NO	42. TYPE OF INVESTIGATION DESIRED <input type="checkbox"/> ROUTINE <input type="checkbox"/> SPECIAL
43. USUAL SIGNATURE OR MARK OF APPLICANT (Fill in when item 44 is not executed)		MAIL CASE REPORT TO:	
44. OATH OF OFFICE, AFFIDAVIT, AND DECLARATION OF APPOINTEE			
<p>I, _____, do solemnly swear or affirm that I will support and defend the constitution of the United States against all enemies, foreign and domestic, that I will bear true faith and allegiance to the same; that I take this obligation freely without any mental reservation or purpose of evasion; that I will well and faithfully discharge the duties of the office on which I am about to enter, so help me God.</p> <p>I do further swear or affirm that I do not advocate nor am I a member of any political party or organization that advocates the overthrow of the Government of the United States by force or violence; and that during such time as I am an employee of the Federal Government, I will not advocate nor become a member of any political party or organization that advocates the overthrow of the Government of the United States by force or violence.</p> <p>I do further certify that (1) I have not paid or offered or promised to pay any money or other thing of value to any person, firm or corporation for the use of influence to procure my appointment; (2) I will inform myself of and observe the provisions of the civil service law and rules and executive orders concerning political activity, political assessments, etc.</p> <p>I do further certify that all statements made on this personal history statement are true, complete and correct to the best of my knowledge.</p>			
described and sworn before me this _____ day of _____			
_____ State of _____		(Signature of applicant)	
(Signature of official administering oath)			

HEADQUARTERS  
ARMY SECURITY AGENCY  
Washington 25, D. C.

WDGAS-40

I do solemnly swear (or affirm) that:

I will not now or at any future time discuss my activities, or any details of the organization, activities, or operations performed by this Agency, except in the performance of my official duties:

I do not now hold, nor will I at any future time keep in my personal possession, or within my personal quarters, any official document of a TOP SECRET, SECRET or CONFIDENTIAL nature, or any copy thereof, except in the performance of my official duties.

(Any violation of the above makes me liable to one or both of the existing penal statutes outlined below:

Military Personnel: The 64th, 81st, and 82nd Articles of War.

Civilian Personnel: The Espionage Act (which calls for a maximum fine of \$10,000 and/or ten years imprisonment).

I will report without delay to my immediate supervisor, or to the Chief, Army Security Agency, the details or circumstances of any case which comes within my knowledge wherein an unauthorized person has obtained or is attempting to obtain information concerning the Army Security Agency or any of its activities.

So help me God.

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Rank or Grade)

Subscribed and sworn to before me on \_\_\_\_\_

HEADQUARTERS  
ARMY SECURITY AGENCY  
Washington 25, D. C.

PATENT MEMORANDUM NO. 1

\_\_\_\_\_  
(Date)

1. You have been assigned to develop improvements in arts of value to the Chief, Army Security Agency or to work with such development that information gained in your work may reasonably be expected to result in patentable invention. Your assignment to this work is for the express purpose of vesting in the United States all right, title and interest to any such improvements and inventions arising from said development or that you may make while engaged in the work assigned, if in the opinion of the Chief, Army Security Agency the public interest demands that the invention be owned and controlled by the War Department.

2. Since no person in the military service or employed by it is entitled to classified military information solely by virtue of his commission or official position and since such information will be entrusted only to those who need it in the performance of their official duties, who of necessity must be informed because of their cooperation in the work, project, development or invention concerned, therefore the possession of or access to classified matter shall of itself for the purpose of this memorandum be deemed to place the person concerned in that group or groups assigned to a development in question nor shall such presumptive assignment in one group limit or preclude assignment, presumptive or actual, in other similar groups.

3. Assignment to this work constitutes a specific assignment to invent such devices, circuits, products or processes as are necessary or desirable for the completion of any project or projects with which your group is charged. Acceptance of this assignment by you will constitute an agreement on your part to execute the papers necessary to transfer to the Government the rights which it requires under paragraph 9 (a) AR 850-50, as set forth in paragraph 7 of this memorandum, including complete assignment of the invention where it falls within the terms of sub-paragraph 9 (a) (1) or, (if it be determined that the invention should be held secret) sub-paragraph 9 (a) (2) thereof. Such assignments, whether of all rights under the invention or merely licenses, must be drafted in form to meet the requirements of law in the categories to which the invention pertains.

4. In the case of an invention which the Chief, Army Security Agency decides should be held classified, or which relates to a classified project, acceptance of this assignment also constitutes an agreement on your part that you will not disclose the invention to unauthorized persons until such time as you are informed in writing by authority of the Chief, Army Security Agency that the need for secrecy has ceased.

5. It is the policy of the Chief, Army Security Agency that officers, enlisted men, and civilian employees have no relations with commercial organizations that might jeopardize their unqualified loyalty to the

Army Security Agency or that might influence their official action in development, procurement and inspection duty. The following examples are cited as representative of conditions that must be avoided:

a. Technical, mechanical, administrative, sales or any other service, outside official working hours or while on leave, to an organization or individual engaged in a line of work that reasonable foresight might visualize as eventually leading to business relation with the Army Security Agency.

b. Financial interest to the extent of 1/100 of one per cent or more of the capital account, in any corporation or partnership that reasonable foresight might visualize as an eventual Government contractor for the type of material with which the Army Security Agency is concerned.

c. Patent licenses under issued patents or applications therefore to manufacturers who may with reasonable foresight be expected to become Government contractors for the type of material with which the Army Security Agency is concerned and involving such patents.

6. In order to assist personnel and to establish criteria the following questions are asked, answers to which are to be attached hereto and made a part hereof: (Use attached sheet for answers to following)

a. Are you employed on a part-time basis or as a consultant by any organization that has now, or is likely to have in the future, contracts from the Army Security Agency: If so, with whom and under what conditions?

b. List your employers for the past ten years.

c. List any contracts or agreements involving inventions, patents, or patent rights to which you are a party, identifying the other parties thereto.

7. Paragraph 9 (a) AR 850-50 reads as follows:

"Inventions evolved by officers, warrant officers, enlisted men and civilian employees will be divided into three classes, those which

(1) Are produced as a result of a specific employment or contract to invent the specific device or article. The War Department will assert the ownership of the Government in this class and will require an assignment of entire right, title and interest therein.

(2) Arise in connection with and as a result of the official duties or general employment of the officer, warrant officer, enlisted man or civilian employee, but where there is no specific designation or employment to invent the thing concerned. With regard to this class, whether or not patented under the provisions of law, ACT April 30, 1928, (45 Stat. 467; 35 U.S.C. 45; M.L. 1939, Sec. 1369), the War Department requires at least a non-exclusive license in writing to make, use, and sell or otherwise dispose of in accordance with law or to cause to be so made, used, sold or disposed of, and every such invention will be reported by the inventor to the War Department. In cases where the invention is

important in the national defense and for that reason should be kept secret, the War Department may request a complete assignment.

(3) Do not refer to and are not evolved in the line of duty of the officer, warrant officer, enlisted man, or civilian employee. With regard to this class the War Department has no particular concern unless the invention has military value. If it has, the War Department will accept a non-exclusive license, if tendered."

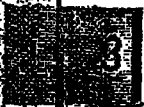
8. This notice of assignment to develop improvements in arts of value to the Army Security Agency shall not be construed as divesting you of ownership of any invention made by you while engaged on this work except as set forth in the preceding paragraph, but the Army Regulations therequoted will be strictly followed. If in any case you believe that these regulations have been improperly applied, the Chief, Army Security Agency may be requested to waive or modify any ruling thereunder which may have been made.

1st Ind.

1. I hereby accept assignment to work under the conditions set forth in basic communication, and agree to communicate to the Chief, Army Security Agency or his designated representative all patentable ideas conceived by me during my work and all patentable ideas conceived by me which relate to Army Security Agency activities during the term of my employment. I agree to cooperate with the Army Security Agency in every proper way to present patent applications which they decide to file, and agree I will not apply for patents on ideas related to Army Security Agency activities (except through the Army Security Agency) unless a release in writing is given by the Chief, Army Security Agency or his duly authorized representative. It is understood that this agreement applies only to the term of employment and terminates when employment as set forth in the basic communication ceases.

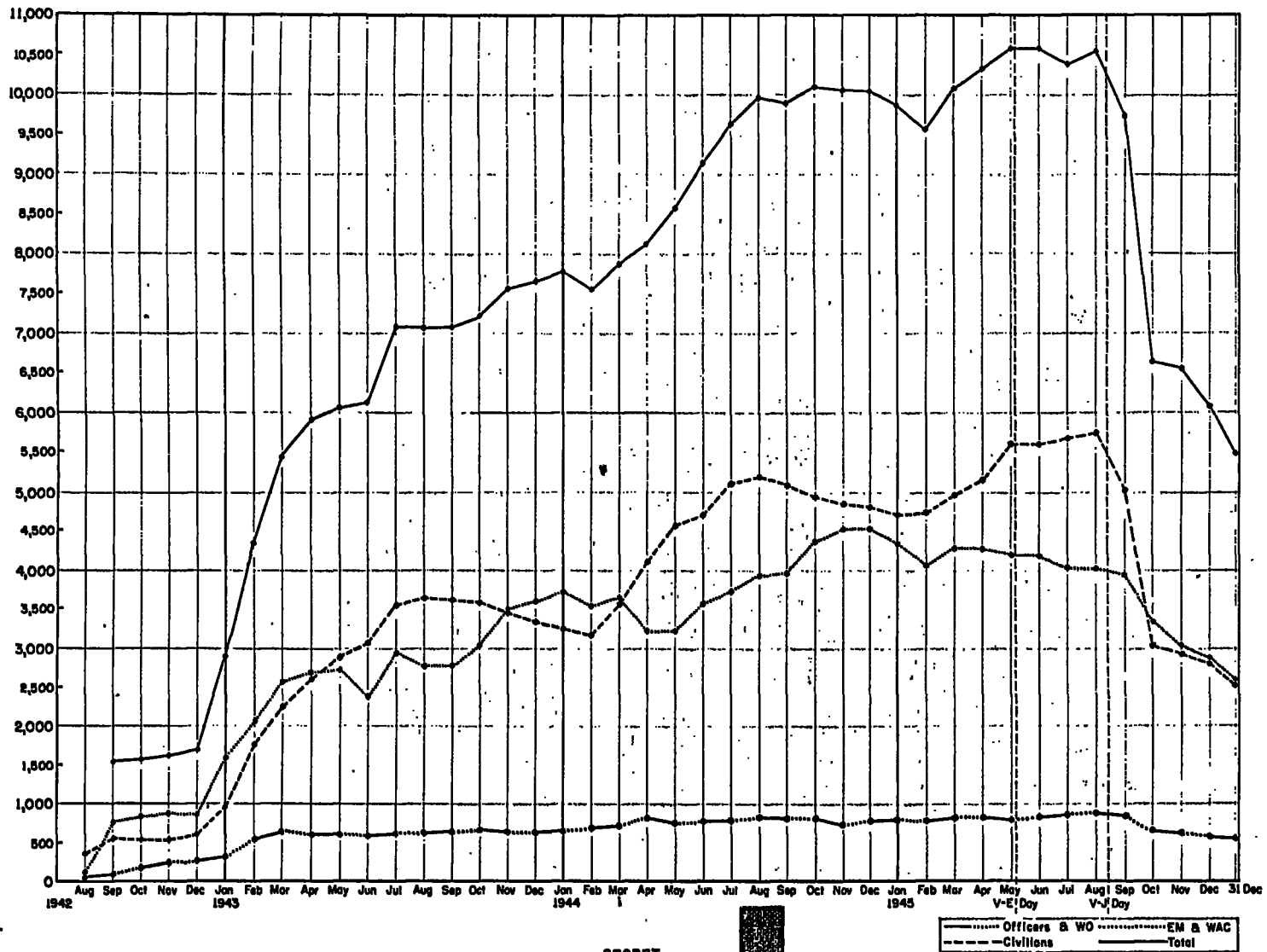
\_\_\_\_\_  
(Signature of employee)





~~SECRET~~

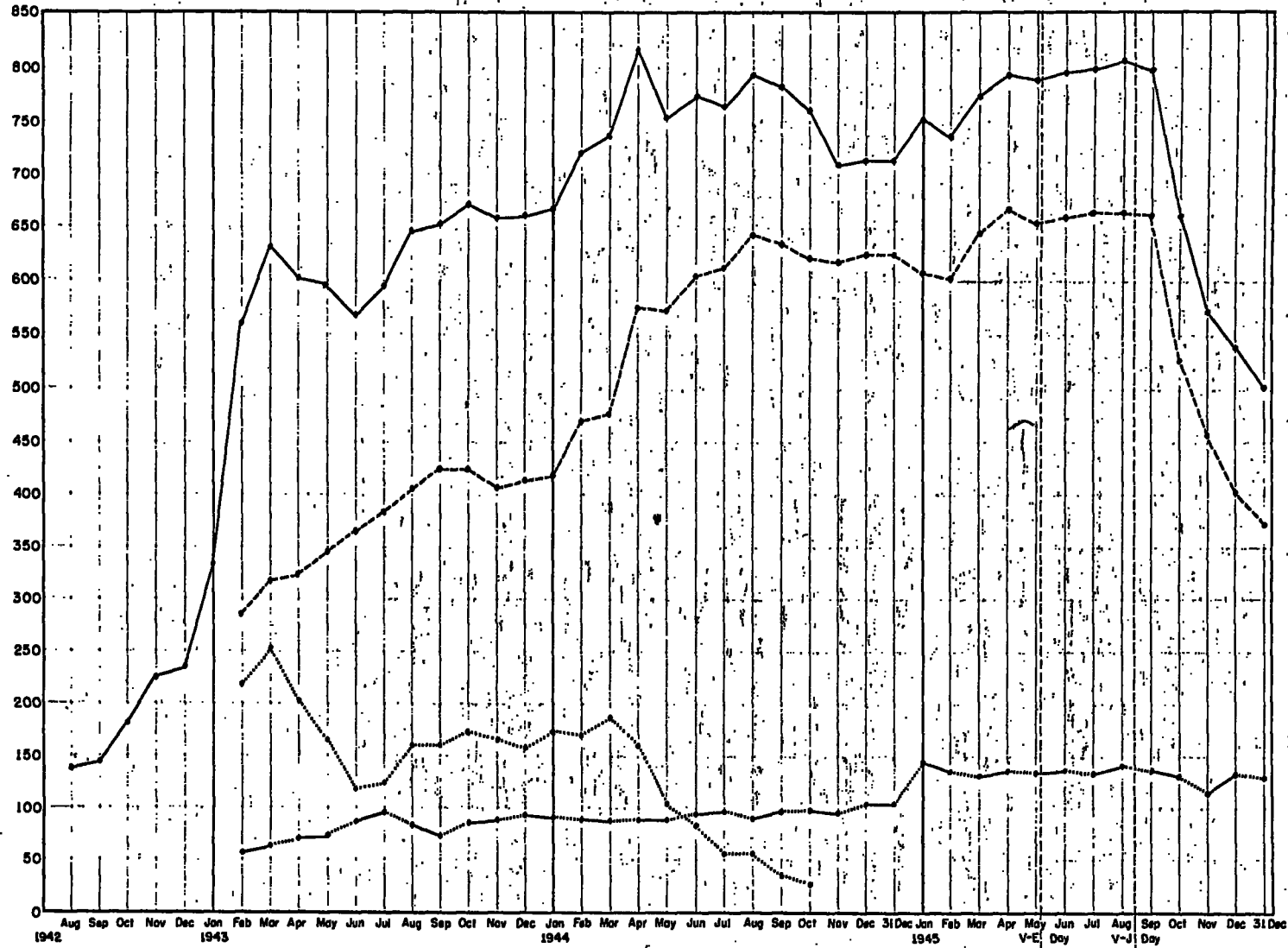
Total Strength, Signal Security Agency, Compiled from Daily Strength Reports  
(AS OF THE FIRST DAY OF THE MONTH)



~~SECRET~~

~~SECRET~~

Officer and WO Strength, Signal Security Agency, Compiled from Daily Strength Reports  
 (AS OF THE FIRST DAY OF THE MONTH)



..... Second Signal Service Battalion  
 - - - - - Officers Pool  
 \_\_\_\_\_ AHS Assigned  
 - - - - - Total

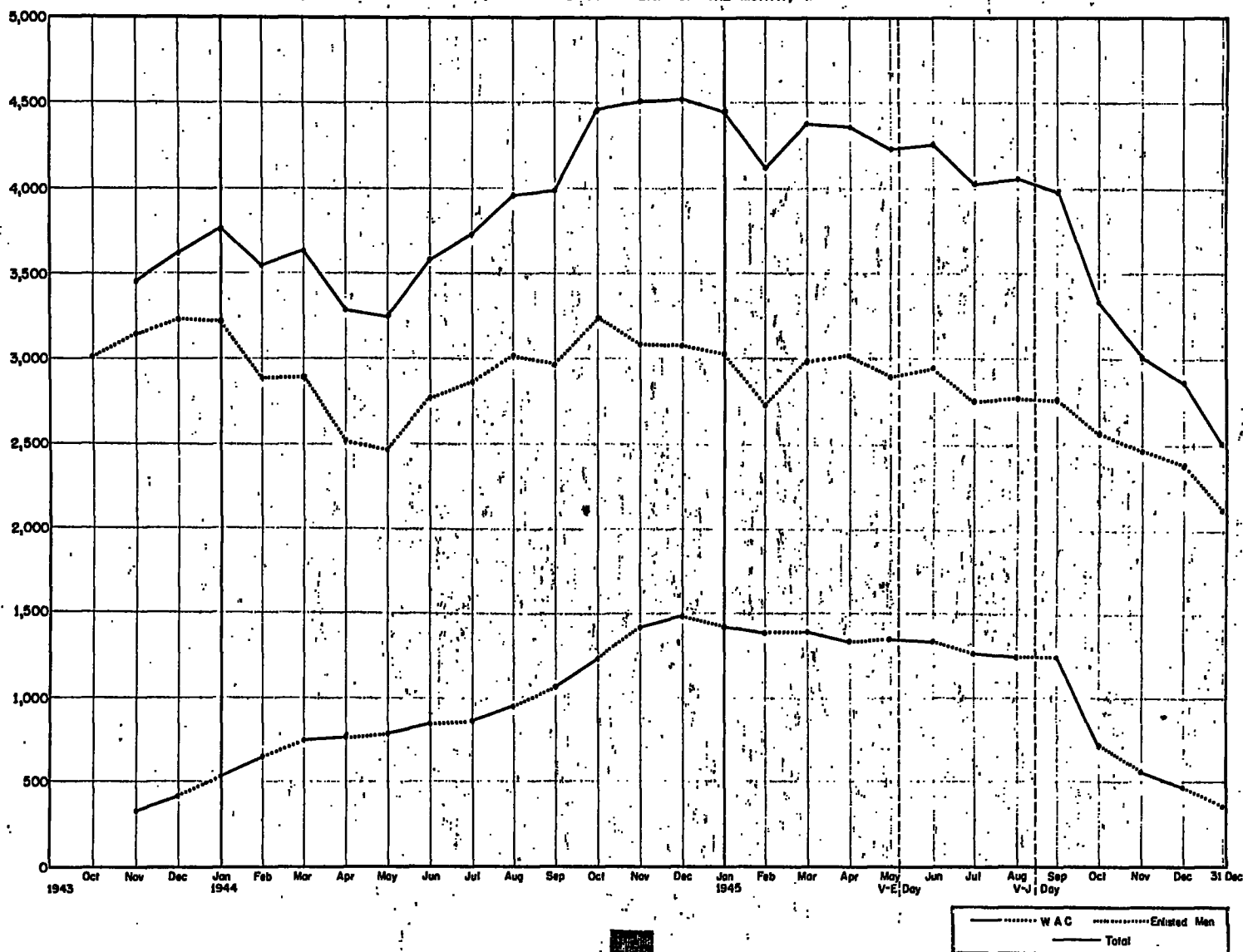
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## Enlisted Personnel, Signal Security Agency

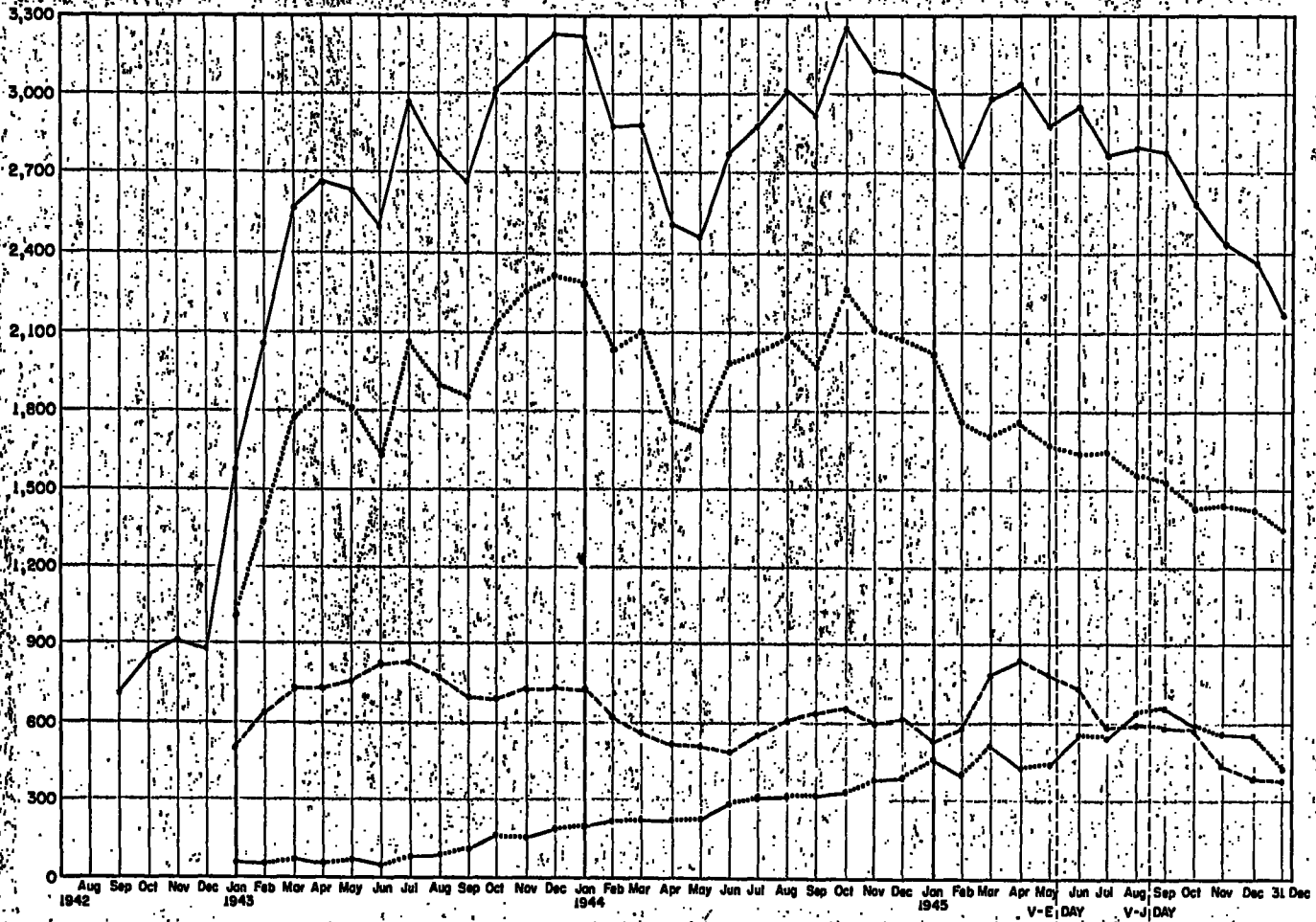
Compiled from strength reports of the Second Signal Service Battalion, including attached personnel

(AS OF THE FIRST DAY OF THE MONTH)



~~SECRET~~

Enlisted Men Strength Signal Security Agency  
 Compiled from strength reports of the Second Signal Service Battalion, including attached personnel  
 (AS OF THE FIRST DAY OF THE MONTH)

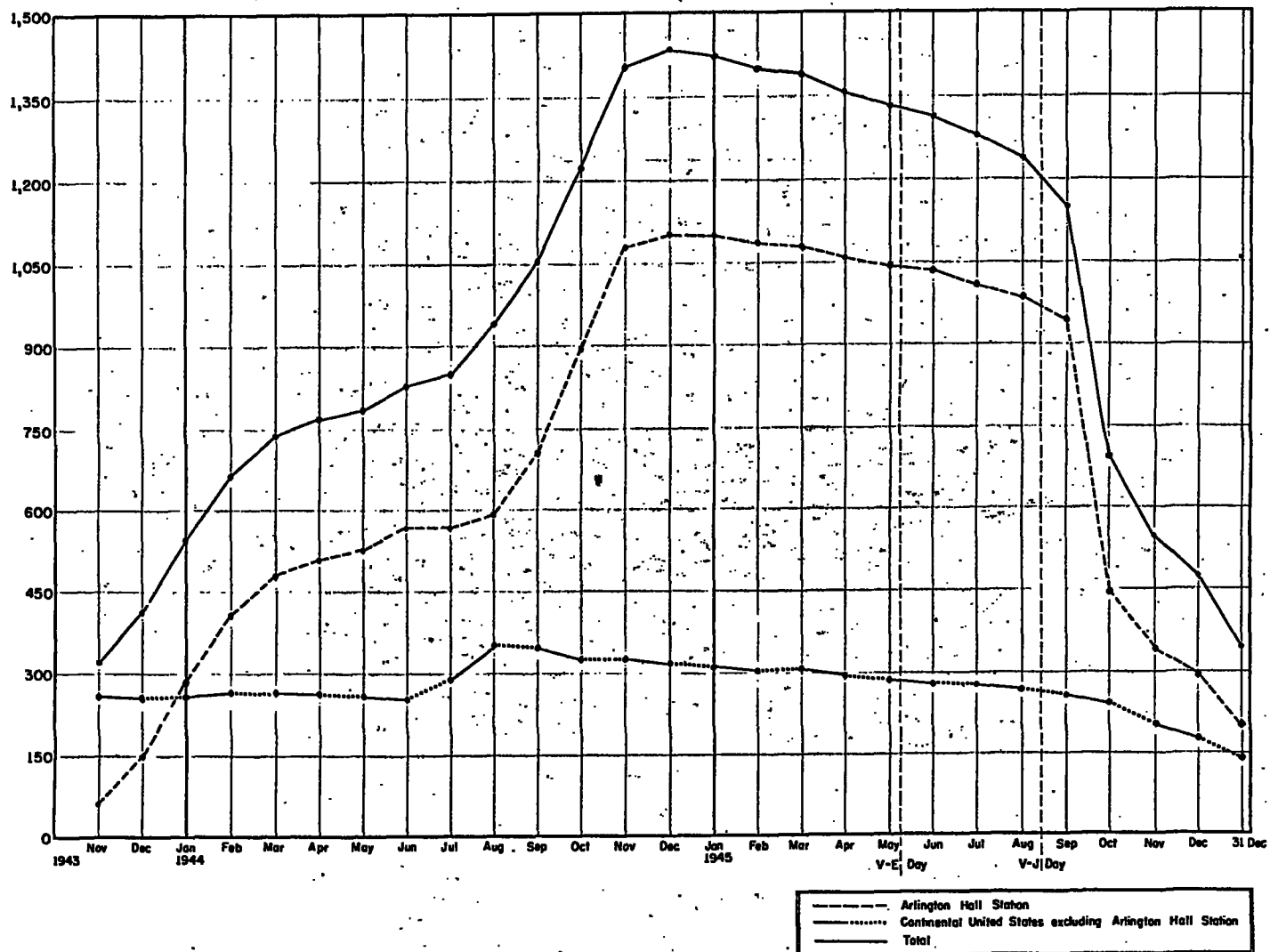


— Total  
 ..... Continental United States excluding Arlington Hall Station  
 - - - - - Arlington Hall Station  
 ..... Overseas

~~SECRET~~

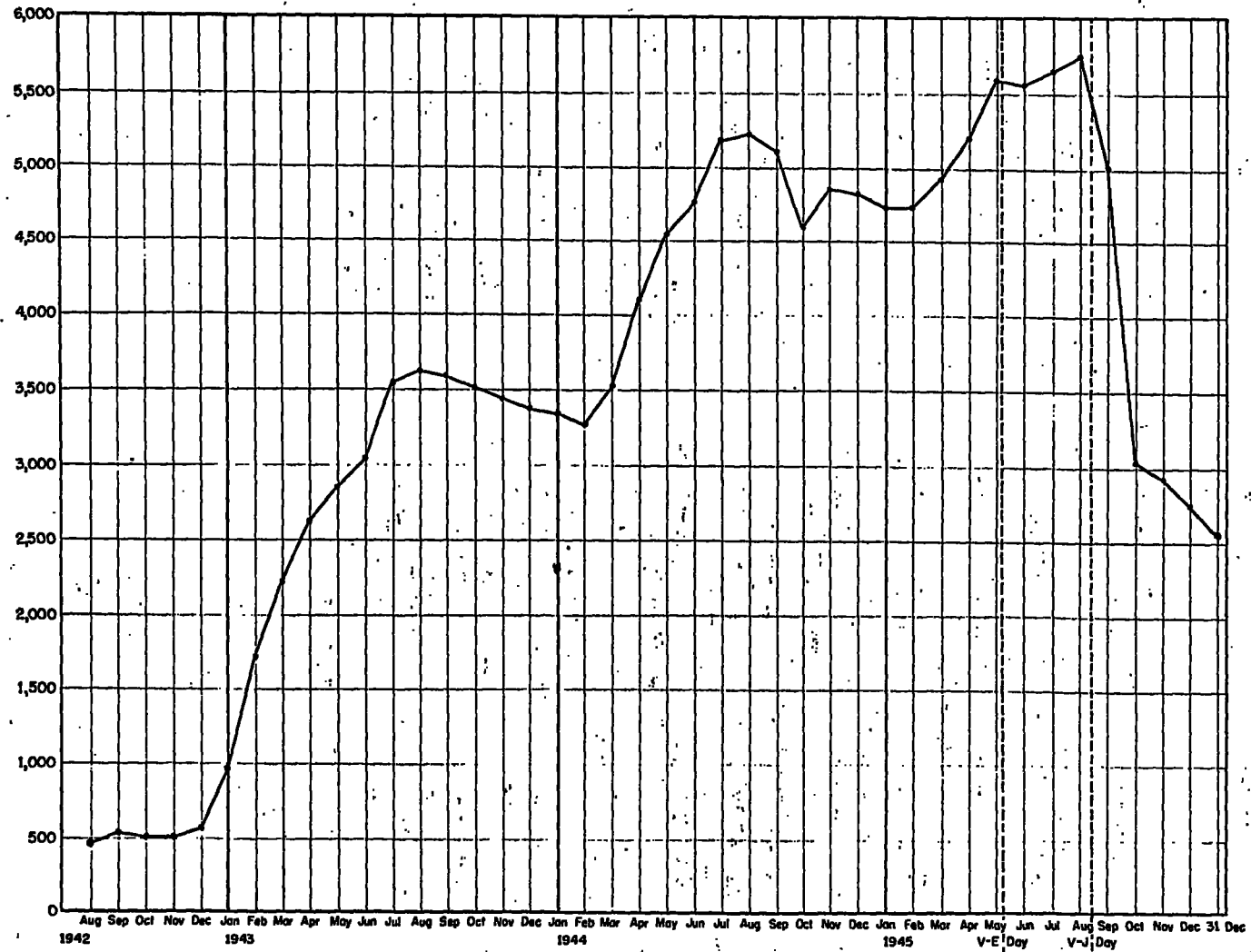
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Enlisted WAC Strength, Signal Security Agency  
 Compiled from strength reports of the Second Signal Service Battalion, including attached personnel  
 (AS OF THE FIRST DAY OF THE MONTH)

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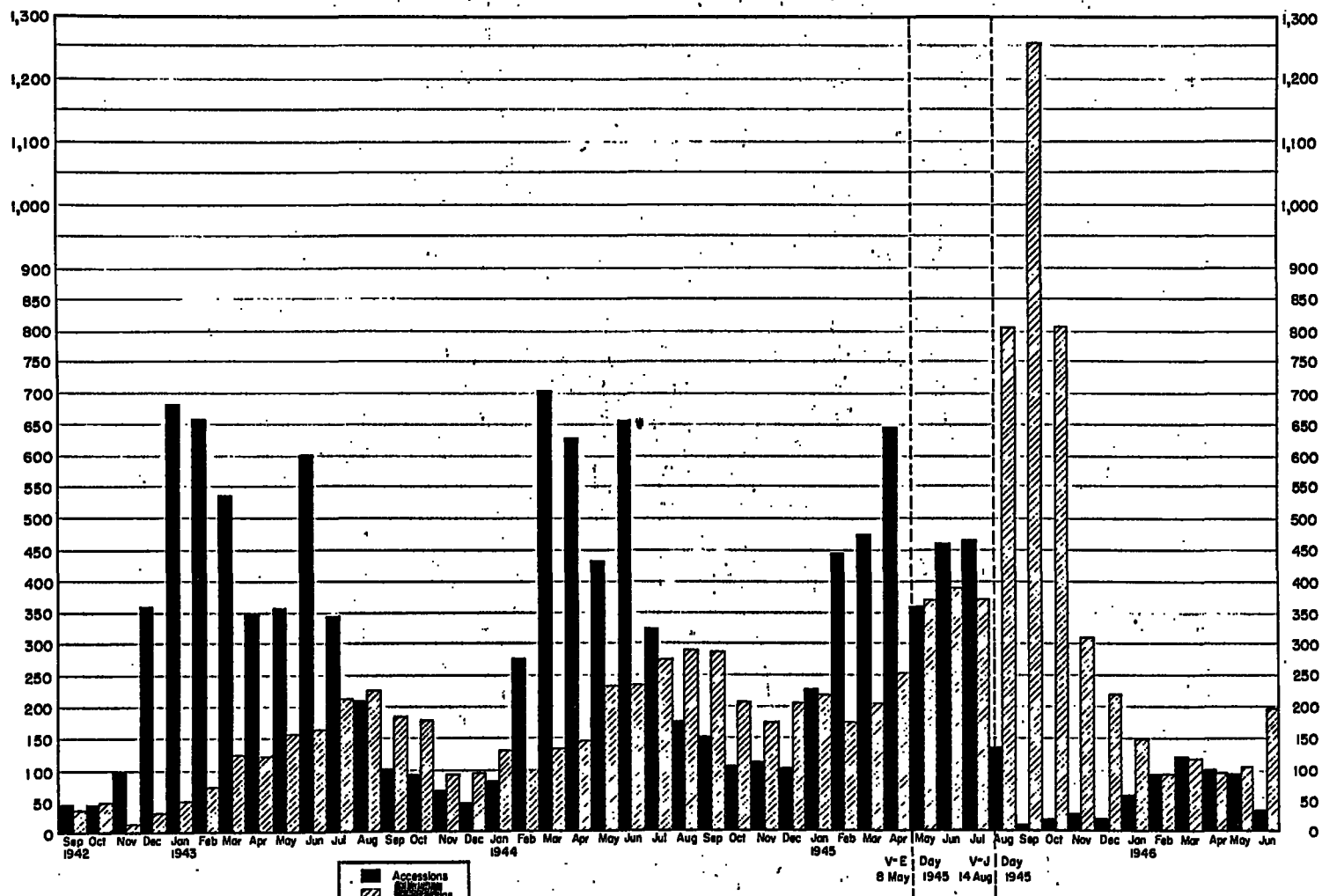
Total Civilian Strength, Arlington Hall Station, Compiled from Daily Strength Reports  
(AS OF THE FIRST DAY OF THE MONTH)

~~SECRET~~

~~SECRET~~

Accessions and Separations of Civilian Personnel, Signal Security Agency  
 Compiled from Daily Strength Reports

(AS OF THE FIRST DAY OF THE MONTH)

~~SECRET~~





## ARLINGTON HALL STATION CHRONOLOGY

July 1942 to December 1945

- 1942
- 8 July      Arlington Hall Station declared an exempt station under the control of the Chief Signal Officer.
- 14 July      Installation of direct wire connection between Station and Air Raid Control Board
- 20 July      Officers' Register established at Arlington Hall Station.
- 12 Aug.      Identification badge color-code system effected for control of admission to restricted areas.
- 22 Aug.      Main section of S.I.S. moved from Munitions Bldg. to A.H.S.
- 24 Aug.      First edition of Post publication, "The Guardsman" distributed.
- 26 Aug.      Construction of Oprs. "A" Bldg commenced.
- 1 Sept.      Construction of troop housing facilities commenced.  
Flag ceremonies initiated.
- 2 Sept.      Hqrs. Cafeteria opened in Hall.
- 5 Sept.      Commanding Officer conducted the first formal inspection of the permanent guard.
- 25 Sept.      War Bond Drive opened with guard ceremonies.
- 26 Sept.      Enlisted Men moved into barracks.  
Dial PBX cut-in at 2010
- 1 Oct.      Enlisted Men's mess opened. Field kitchen in use.  
First Retreat ceremony held.
- 5 Oct.      War Bond Drive successfully completed.  
Over \$100,000 in annual subscriptions obtained.
- 6 Oct.      Commanding Officer entertained the following officers at tea following an inspection tour of the Post:

1942

Admiral Godfrey, R.N.  
 Maj. Gen. G. V. Strong  
 Brig. Gen. F. E. Stoner  
 Col. G.W. Clarke

- 6 Oct. Upon publication of the 5th edition, the name of the Post publication was changed to "Barracks Bag".
- 8 Oct. Post Exchange opened at 1700.
- 12 Oct. Training program for enlisted men initiated. Elements included as follows:  
 Close order drill  
 Military Courtesy  
 Basic signal communications  
 Weapons assembly
- 18 Oct. Opening of inside kitchen in enlisted men's mess hall.
- 28 Oct. Small fire occurred in Oprs. "A" Bldg. under construction. Slight damage reported.
- 30 Oct. Basic training program for officers directly commissioned.
- 16 Nov. Refresher courses for officers initiated.
- 17 Nov. First units of "B" Section moved into wings 7 and 8 of new Oprs. "A" Bldg.
- 26 Nov. Following officers entertained in enlisted men's mess for Thanksgiving Dinner:  
 Maj. Gen. Olmstead  
 Brig. Gen. Stoner  
 Col. Bullock  
 other field grade officers from A.H.S.
- 27 Nov. Community War Fund Drive successfully completed. Military and civilian personnel pledged \$4548.30
- 1 Dec. Construction of Oprs. "B" Bldg commenced.

1943

- 15 Jan. New Main Cafeteria opened. Hqrs. Cafeteria closed.
- 16 Jan. Emergency Loan Fund established at Arlington Hall Station. Lt. Donald Phillips named custodian.
- 21 Jan. Meeting of all officers held in Main Cafeteria by Col. Bullock. TF "Prelude to War" shown.
- 21 Jan. Post Dispensary activated. Capt. Hyman Casselman, OIC.
- 30 Jan. Col. W. Preston Corderman appointed, C.O., Arlington Hall Station, vice Col. Frank W. Bullock.
- 1 Feb. North parking area opened and made available to all Post personnel.
- 10 Feb. Major James E. Slack appointed Post Adjutant, Arlington Hall Station, vice Lt. Col. J.B. Mathews.
- 23 Feb. Major James E. Slack appointed Post Executive Officer.
- 23 Feb. 1st Lt. James F. Best, Jr. appointed Post Adjutant, vice Major James E. Slack
- 1 Mar. Air Raid Siren installed on Hqrs. Bldg.
- 10 Mar. Red Cross Drive completed. \$5672.00 contributed from Arlington Hall Station.
- 12 Mar. Meeting of all officers held in Main Cafeteria: The following officers spoke on the subjects indicated:
- Lt. Col. Cook - Wearing of the Uniform
  - Maj. Brown - Military Courtesy
  - Maj. Slack - Actions becoming officers
- 15 Mar. First three wings of Oprs. "B" Bldg occupied.
- 15 Apr. West Lee Boulevard entrance to Post opened.

1943

- 17 Apr. McShain Contractors, Inc. awarded Army-Navy "E" Award for construction completed on the Post.
- 24 Apr. "Government Girl" warplane fund drive netted \$1185.00 at Arlington Hall Station.
- 30 Apr. Swimming pool in Post gymnasium opened for use of military personnel.
- 4 May Meeting of all officers held in cafeteria.
- 5 May Public address system installed in barracks area. To be used for parade music, bugle calls, etc.
- 10 May Occupation of Operations "B" Bldg. completed.
- 10 May Dental section of dispensary activated.
- 13 May Hqrs. Cafeteria re-opened.
- 15 May Friday reviews of 2nd Sig. Serv. Bn inaugurated.
- 22 May 2505th Service Unit (Medical Unit) activated at Arlington Hall Station.
- 22 May Arlington Officers Club incorporated.
- 28 May American Flag presented to Arlington Hall Station by Maj. Gen. Olmstead. Flag received on behalf of A.H.S. by Mrs. Charles Saltzman.
- 1 June Election of permanent officers for Arlington Officers Club. Lt. Col. Brown elected president.
- 5 June Enlisted men marched in review before Col. Corderman.
- 14 June Film "Divide and Conquer" shown at meeting of all officers. (3rd film in series)
- 5 July Meeting of all officers. Movie of (1) troop tng. at AHS and (2) Review of June 5th shown.
- 13 July First Sig. Serv. Platoon activated at A.H.S.

1943

- 16 July Arrival of first WAAC personnel.
- 15 July First contingent of Post military personnel (exclusive of guard) fired Rifle Course C.
- 24 July Arlington Officers Club opened. Official opening and dance scheduled for 31 July.
- 2 Aug. Clearing of grounds started for construction of enlisted men's barracks.
- 17 Aug. "Arlington Hall Daily News" Summary: given complete distribution to all officers.
- 30 Aug. "Leadership" courses for all officers instituted.
- 31 Aug. Current War Talk for civilians held in gymnasium Speaker- Charles P. Taft, Director of Office of Community War Services.
- 4 Sept. Current War Talk for civilians held in gymnasium Speaker- Lt. Col. Earle F. Cook, Chief of B Branch.
- 7 Sept. Current War Talk for civilians held in gymnasium. Speaker- Rear Admiral Joseph Redman, Director of Naval Communications.
- 9 Sept. Col. S.P. Gollins commanding in absence of Col. W. Preston Corderman.
- 9 Sept. Enlisted men's barracks completed with exception of water heating plant.
- 11 Sept. Current War Talk for civilians held in gymnasium. Speaker- Dr. Arthur Fleming, Civil Service Commissioner.
- 13 Sept. Current War Talk for civilians held in gymnasium. Speaker- Brig. Gen. J.V. Matejka, Chief, Personnel and Tng. Service, OCSigO.
- 15 Sept. Current War Talk for civilians held in gymnasium. Speaker- Mr. Byron Price, Director of Censorship.
- 20 Sept. Infiltration Course, consisting of simulated battle conditions for mental conditioning, formally established for all military personnel except Wacs.

1943

- 20 Sept. Current War Talk for civilians held in gymnasium. Speaker- Mr. Wm. F. Friedman, Director of Communications Research, A.H.S.
- 23 Sept. Current War Talk for civilians held in gymnasium. Speaker- Hon. Joseph C. Grew, former ambassador to Japan. Subject- "Our Enemy, the Japanese".
- 27 Sept. Current War Talk for civilians held in gymnasium. Speaker- Mr. Hugh H. Klegg, Asst. Director of F.B.I. Subject- "The Enemy in Our Midst".
- 1 Oct. Final meeting in series of Current War Talks for civilians held in gymnasium. Speaker- Maj. Gen. Wilhelm D. Styer, G of S, A.S.F.
- 4 Oct. 3rd War Loan Drive concluded. Over 90% civilian participation in Payroll Deductions Plan \$90,109.00 in cash bonds sold.
- 4 Oct. 50 manual lines added to switchboard to relieve overload of equipment.
- 5 Oct. First assignment of WAC quarters on Post.
- 15 Oct. Post Library for military personnel opened in gymnasium.
- 23 Oct. Colonel Corderman returned to Station and assumed command.
- 2 Nov. Community War Fund Drive completed. Net income of \$13,350.75 received.
- 8 Nov. Heavy rain caused flooding of cafeteria Bldg. basement damaging over \$10,000.00 of Post Exchange supplies.
- 11 Nov. 1st Lt. Jay W. Warrall appointed Provost Marshall vice Capt. Scott F. Runkle.
- 19 Nov. Strike of Arnold Bus Co. operators caused a 2 day tie-up of buses serving AHS. Motor Pool and private transportation used in place of buses.
- 19 Nov. Last Battalion Revue of current year.
- 26 Nov. Security Film "Sucker Bait" shown to all post personnel.

1943

- 29 Nov. Film "The Battle of Russia" (Parts IV & V of "Why We Fight series) shown to all post personnel.
- 8 Dec. Civilian War Service Awards presented by Col. Corderman and accepted on behalf of 1883 employees by Mr. Wm. F. Friedman.
- 13 Dec. First class held in the series of courses in Military Justice for all officers, AHS. Courses to include 6 classes, lasting 2 weeks.
- 21 Dec. New color code instituted for Arlington Hall Badge system.



1944

- 1 Jan. Capt. Thurman R. Hammon appointed Post Adjutant vice Capt. James F. Best relieved.
- 1 Jan. Lt. John MacDonald appointed Post Intelligence Officer vice Capt James F. Best relieved.
- 13 Jan. Cafeteria tickets issued.
- 25 Jan. Work begun on moving and relocating guard fence.
- 8 Feb. A small fire occurred at 1940 in Room 2063-A.
- 11 Feb. Main Gate closed for repairs.
- 15 Feb. The Main Gate was re-opened.
- 28 Feb. Fire Drill at 1500 in Headquarters Building.
- 29 Feb. 4th War Loan Drive completed. 90.2% civilian participation in Payroll Deduction Plan. 9% individual payrolls subscribed \$87,048.00 cash purchases.
- 1 Mar. Lt. Col. James E. Slack appointed Administrative Officer to perform duties previously performed as Executive Officer.
- 1 Mar. Maj. Joseph W. Johnston appointed Asst. Administrative Officer to perform duties previously performed as Asst. Executive Officer.
- 13 Mar. Opening of Communications Conference held at Arlington Hall Station. Conference attended by 25 participants (21 officers and 4 civilians) and 10 observers and technical consultants.
- 24 Mar. Communications Conference concluded.
- 28 Mar. Ground cleared for beginning of new construction at Arlington Hall Sta. This construction to include:
- 13 WAC barracks
  - 1 WAC barracks as admin. & tng. bldg.
  - 1 Mess hall
  - 1 Tng Auditorium
  - 1 Recreation bldg.
  - 1 Exchange bldg.

1944

- 1 Dispensary
  - 1 Central heating plant
  - 1 Warehouse
  - 1 Motor repair shop
  - Addition to Post Engineer's Office
  - Drill & recreation field
  - Conversion of existing dispensary to WAC officers' quarters and dayroom
  - Conversion of existing P-X to custodial dressing rooms & tailor shop
  - Conversion of a portion of existing WAC barracks for storage
  - Conversion of enlisted men's latrine for storage
- 30 Mar. Capt. Rhea M. Smith appointed Post Historian.
- 31 Mar. Red Cross Drive completed. \$15,499.07 subscribed.
- 4 April A meeting of all officers held in Post Gymnasium. Speaker- Lt. Col Frederick J. O'Leary, Asst. Chief, Civilian Personnel Branch, OSCigo Subject: Civilian Job Classification.
- 22 April Strike of Arnold Bus Co. operators caused 2 day tie-up of bus service for A.H.S. Motor Pool and private vehicles used in place of bus service.
- 24 April Electric power shut off from 0800 to 1100 due to construction.
- 28 April Hours of duty for all personnel changed as follows:
- 1st Shift - 0800-1630
  - 2nd Shift - 1600-0030
  - 3rd Shift - 2400-0800
- 2 May Shuttlebus schedule to Pentagon Building changed.
- 5 May Civilian personnel accepting part-time employment with Arnold Bus Lines, Inc.
- 10 May Post tennis courts available for use.
- 22 May Forms Standardization Unit established.
- 22 May Post Exchange audited for period 26 Mar to 24 Apr.

1944

- 24 May Fire Department inspected by Service Command Engineer.
- 24 May Meeting of Post Conservation Officers held.
- 25 May Chairman and Key-Men for forthcoming War Loan Drive appointed.
- 27 May Secure telephone system authorized by A.C.S.
- 29 May Chaplain (1st Lt.) William P. Smith assigned to Arlington Hall Station.
- 1 June Fifth War Loan Drive begun.
- 8 June Lt. George F. Baine, Jr. appointed Post Safety Officer, in addition to his other duties.
- 9 June Construction of Barracks Nos. T-502, T-505, T-507, T-512, Adm. Bldg. No. T-506, N.C.O. Quarters No. T-513, and conversion of Barrack No. T-305 to Rod Storage completed.
- 20 June Construction of Warehouse, Motor Repair Shop, Grease and Inspection Rack, Wash Rack, Concrete Road and apron to Warehouse, gravel road and apron to Motor Pool buildings completed.
- 30 June Main Store of new Post Exchange opened.
- 4 July Tap Room in new Post Exchange opened.
- 6 July Meeting of Post Recreation Committee
- 10 July Shuttlebus schedule to Pentagon Building revised. Buses will run every thirty minutes, beginning at 0845.
- 26 July Civilian Recruiting campaign closed 3,281 recruited.
- 27 July Processing of officers begun for issuance of new A.G.O. cards.
- 27 July All leaves and furloughs frozen, in compliance with directive from ASF.
- 28 July Colonel Corderman and Mr. Friedman presented \$250 award in Post Theater to Mrs. Mabel E. Ford for her suggestion for Victory.

1944

- 31 July Fifth War Loan Drive concluded. 141 new accounts gained, \$82,440.50 cash sales.
- 3 Aug. Personnel Policies and Procedures Manual issued.
- 12 Aug. Post Theater opened.
- 15 Aug. Main Cafeteria open 24 hours daily.
- 15 Aug. Red Cross Field office established in Post Gymnasium.
- 15 Aug. Mr. J. M. Patterson, Real Estate Branch, Office, Chief of Engineers, inspected real estate.
- 16 Aug. Fire Department inspected by Service Command Engineer.
- 20 Aug. Headquarters Cafeteria closed.
- 21 Aug. Headquarters Cafeteria operation consolidated with Main Cafeteria.
- 21 Aug. S.S.A. reorganized
- 29 Aug. Repair of floors and ceilings in Building T-112, installation of additional partitions in Building T-506, and glazed doors between library and lobby of building T-101 completed.
- 31 Aug. Defective BX cable in 5th Wing, Operations A Bldg., caused damage by fire in the amount of \$50.00
- 10 Sept. Installation of 100 additional dial telephone lines completed.
- 12 Sept. WAC Recruiting Program ended; 620 WAC's recruited.
- 21 Sept. Headquarters Cafeteria now available as Post Conference Room.
- 21 Sept. West Lee Blvd. Gate closed to all traffic. Sixth & Quincy Street Gate reopened to all traffic.
- 22 Sept. Installation of secure telephone system completed.

1944

- 1 Oct. Leave and furlough policy unfrozen.
- 2 Oct. Sir Henry Travis and Brig. A.F. Harris, H.M.F. visited the Commanding Officer.
- 4 Oct. Major General Thompson, Brigadier General Stoner and Colonel Rehm visited station this morning, later going to Vint Hill.
- 5 Oct. Schedule of hours of operation of main cafeteria changed.
- 5 Oct. Designation of former Hq. Bldg. Chapel changed to Room 120 Hq. Bldg. Designation of former Hq. Bldg. Cafeteria changed to Hq. Bldg. Auditorium.
- 8 Oct. Schedule of banking hours at Arlington Hall Branch of Arlington Trust Co. changed.
- 10 Oct. Fire Drill - Operations B Bldg., 1500 hours
- 10 Oct. Meeting of all officers in Post Theatre at 1635.
- 11 Oct. Fire Drill in Headquarters Building at 1100
- 11 Oct. Meeting of Chairman, Key-Men and Minute-Men in War Fund Campaign held in Post Theater at 1500.
- 12 Oct. Major Barnhart, Food Service Supervisor, Office of the Quartermaster General, reported to inspect Mess hall and Cafeteria.
- 13 Oct. Revised personnel authorization for 2505th Service Unit approved.
- 24 Oct. Captain William G. Vogel, Dental Corps, reported for duty, replacing Captain Berger, relieved.
- 25 Oct. \$38,104.60 has been donated to Community War Fund Drive. Our quota is \$31,898.05.
- 21 Oct. Lt. Jack J. Kooistra designated Post Signal Officer vice Capt. Thurman R. Hamman, relieved.
- 3 Nove. Capt. Norman K. Drake appointed Athletic Officer vice Major Philip King, relieved.

1944

- 3 Nov. Brig. Gen. Stoner addressed all officers at 1635 in Post Theater.
- 7 Nov. Col. C.B. Allsopp spoke to members of the Forum Group at 1430 in Room 2067A.
- 8 Nov. Per instructions received from the Commanding General, Military District of Wash., all post flags were flown at half mast from reveille to retreat in respect to Sir John Dill, British Chief of Staff in the United States, who was buried today in Arlington National Cemetery.
- 10 Nov. Twenty enlisted women were presented good conduct ribbons by Lt. Colonel Slack.
- 17 Nov. Moving operations within Headquarters Bldg. begun.
- 18 Nov. Colonel W. Preston Gorderman departed today for temporary duty overseas. In his absence, Col. S.P. Collins will act as Asst. Chief, S.S.B., and Commanding Officer, AHS and 2nd Sig. Serv. Bn.
- 22 Nov. Lt. O.P. Jones appointed Post Intelligence Officer and Public Relations Officer, vice Capt. J.N. MacDonald, relieved.
- 23 Nov. Chaplain Smith conducted Thanksgiving Services in Post Theater at 1115 today. Turkey served in Battalion Mess Halls and Cafeteria.
- 24 Nov. Brig. Gen. Stoner visited the station today.
- 25 Nov. Sixth War Loan Rally of Chairman, Key Men and Minutemen held in Post Theater at 1430.
- 26 Nov. Construction of new fire station begun.
- 28 Nov. Fire drills conducted in Operations "A" and "B" Bldgs.
- 11 Dec. New Post Telephone Directory issued.
- 11 Dec. 1st Lt. George F. Baine, Jr. appointed Asst. Post Adjutant, vice 1st Lt. Robert F. Packard relieved.

1944

- 19 Dec. Inspector General (Lt. Col. Morris) inspecting  
WAC Detachment today and tomorrow.
- 21 Dec. Swimming Pool opened for military personnel.
- 20 Dec. Fire Drill in Operations A Bldg at 1100  
Fire drill in Hqds. Bldg at 1500.
- 22 Dec. Colonel W. Preston Corderman returned to duty.

1945

- 1 Jan. Representatives from Inspector General's Department inspected Special Services and other non-appropriated funds.
- 2 Jan. Colonel W. Preston Corderman spoke to members of the Forum Group regarding his recent trip to the Pacific Ocean Area.
- 5 Jan. Major General F.E. Stoner, Brigadier General H.M. McClelland, AAF and Lt. Colonel H.R. Pemberton, AAF, ACO, visited the Commanding Officer.
- 9 Jan. A civilian morale program has been announced, to consist of lectures to employees. Each employee will attend a session every two months.
- 20 Jan. First performance of "Night Must Fall" given at Post Theater. Other performances will be given on 22 and 23 January.
- 24 Jan. Section III, General Orders No. 6, War Department, 24 January 1945, announces the award of the Legion of Merit to Lt. Colonel Harold McD. Brown, for exceptionally meritorious conduct in the performance of outstanding services from 16 November 1942 to 21 October 1944.
- 31 Jan. Additional dental chair installed in dispensary.
- 1 Feb. Pursuant to provisions of ASF Circular No. 13, dated 11 January 1945, and OCSigO Memorandum Serial No. 19, dated 25 January 1945, the Signal Security Agency, effective 1 February 1945, is designated TSU#9420, Signal Corps, Signal Security Agency, Arlington Hall Station, Arlington, Virginia.
- 1 Feb. Pursuant to provisions of ASF Circular No. 13, dated 11 January 1945, and OCSigO memorandum Serial No. 19, dated 25 January 1945 the Officers Signal Corps Replacement Pool, Arlington Hall Station, effective 1 February 1945 is designated TSU No. 9600, Detachment E, Signal Corps, Signal Corps Advanced Radio Communication School, Arlington, Virginia.



1945

- 24 Feb. New fire station completed.
- 28 Feb. Colonel Oveta Gulp Hobby, Director, Women's Army Corps, visited the post from 1100 to 1400.
- 1 Mar. Lt. Colonel A.J. McGrail spoke to members of Forum Group.
- 1 Mar. The 1945 Red Cross War Fund Drive began.
- 17 Mar. Colonel Harold G. Hayes appointed Assistant Commandant, Signal Security Agency, vice Colonel Samuel P. Collins, relieved.
- 20 Mar. Colonel Corderman spoke at meeting of all officers in Post Theater at 1645.
- 3 Apr. Red Cross War Fund Drive ended \$20,062.96 having been collected at this station, against a goal of \$15,399.00
- 12 Apr. President Franklin Delano Roosevelt died at War Springs, Georgia today.
- 14 Apr. In respect to the late President Roosevelt, personnel were granted a half day off.
- 30 Apr. Major General Harry C. Ingles, Chief Signal Officer visited the Post today.
- 30 Apr. Lt. Colonel A.J. McGrail, Chief of D Research died at his quarters of coronary thrombosis today.
- 3 May Lt. Colonel McGrail interred at Fort Myer, Virginia.
- 7 May Germany surrenders unconditionally to United States, Great Britain, and Russia.
- 16 May Request for loan for the purchase of upholstered seats to be installed in the Post Theater approved by Special Services Division.
- 19 May Second Signal Service Battalion Organization Day.
- 23 May Brig. Gen. Hodes, Asst. Deputy Chief of Staff, and Colonel Hobby, Director WAC, visited Post.

1945

- 30 May Colonel Harold G. Hayes relieved as Assistant Commandant, Signal Security Agency.
- 30 May Major Robert T. Walker designated Executive Officer, Signal Security Agency.
- 31 May Arlington Hall Symphony Orchestra presented concert in Post Theater.
- 3 June In accordance with the provisions of I&D Circular No. 135, 1945, tobacco rationing was effected this date at Arlington Hall Station.
- 14 June Tennis courts available for military personnel.
- 19 June Group picture of all Division and Branch Chiefs taken in amphitheater.
- 19 June First performance of "George Washington Slept Here" given in Post Theater. Other performances to be presented on 20 and 21 June.
- 22 June Construction of bus shelter began in front of station on Lee Boulevard.
- 22 June Lt. Gen. H.A. Craig, OPD, Maj. Gen. H.A. Quesada, AAF, Maj. Gen. Vandenberg, AAF and Brig. Gen. Carter W. Clarke, MIS, visited Post today.
- 28 June Colonel W. Preston Corderman promoted to the rank of Brigadier General per WD Special Order No. 154, dated 28 June 1945.
- 5 July Work started to convert fourteen mobilization type, cinder block, two-story barracks to the improved standard of housing already in effect at South Post, Fort Myer, Virginia.
- 12 July Major General Frank E. Stoner spoke to the officers of Arlington Hall Station regarding his tour in the European Theater of Operations.
- 14 July Bus shelter completed in front of station on Lee Boulevard.
- 4 Aug. Brig. Gen. Robert N. Young, Commanding General, Military District of Washington, accompanied by Colonel William F. Rehon visited Arlington Hall Station and Vint Hill Farms Station.

1945

- 14 Aug. Japan accepts terms of the Potsdam Conference.
- 15 Aug. In accordance with declaration of President Truman, a two day holiday to celebrate the
- 16 Aug. surrender of Japan was observed.
- 18 Aug. Brigadier General Corderman spoke to all Arlington Hall personnel regarding the past activities of the Signal Security Agency and the conversion of the Signal Security Agency to a peacetime status.
- 18 Aug. Sec VI, War Department General Orders No. 64, 4 Aug. 1945 announces the award of the Legion of Merit to Col. Clinton B. Allsopp.
- 18 Aug. Sec III, War Department General Orders No. 65, 9 Aug. 1945, announces the award of the Legion of Merit posthumously to Lt. Col. Aloysius McGrail.
- 21 Aug. Major General Clayton Bissell, Asst. Chief, G-2, WDGS, visited this station.
- 24 Aug. North Parking Lot closed for resurfacing.
- 26 Aug. Forty-hour week effected at this Post.
- 27 Aug. 1st Lt. Joseph A. Johnson designated Assistant Adjutant, Arlington Hall Station and Signal Security Agency vice 1st Lt. George F. Baine, Jr. relieved.
- 29 Aug. WAC Retreat Parade. Presentations of Good Conduct Medals by Colonel Westray B. Boyce, Director, WAC
- 29 Aug. First issue of current series of Post newspaper "The Barracks Bag".
- 31 Aug. Colonel E.M. Drake and Commander Hope from Ottawa, Canada visited this Post.
- 1 Sept. Quarterly inspection of WACs in old area.
- 5 Sept. Captain Mason and Commander Goodwin of the U.S. Navy and Colonel Hayes and Lt. Colonel Goodrich of the U.S. Army inspected facilities at Arlington Hall Station.

1945

- 6 Sept. General Seibert and General Carter W. Clarke visited this Post.
- 8 Sept. Company pictures were made of WAC Company 3 (1st Lt. Doris B. Clarke, CO) and WAC Company 4 (1st Lt. Martha Schuchart, CO).
- 8 Sept. Quarterly inspection of WAC's in new area.
- 10 Sept. Military and civilian personnel of Arlington Hall Station excused from 1200 to 1500 hours to participate in welcome for General Jonathan M. Wainwright.
- 15 Sept. Reorganization of WAC companies as follows:  
 Company 1, 1st Lt. Geneva L. Krontz, CO,  
 Company 2, 1st Lt. Mary B. Downs, CO,  
 Company 3, 1st Lt. Doris B. Clarke, CO,  
 Company 4, 1st Lt. Martha Schuchart, CO.
- 15 Sept. Signal Security Agency reorganized as Army Security Agency and placed under War Department, General Staff.
- 15 Sept. Quarterly inspection of enlisted men.
- 28 Sept. Colonel E.M. Drake of Ottawa, Canada, visited this Post.
- 28 Sept. Class B uniform authorized for wear on and off Post.
- 3 Oct. Reorganization of WAC companies as follows:  
 Company 1, 1st Lt. Geneva L. Krontz, CO,  
 Company 2, 1st Lt. Mary B. Downs, CO.
- 5 Oct. Military and civilian personnel of Arlington Hall Station excused to participate in celebration for Admiral Chester W. Nimitz.
- 11 Oct. Brigadier Tiltman, GCCS, visited this Post.
- 12 Oct. Sir Edward Travis, GCCS, visited this Post.
- 12 Oct. Sec III, War Department General Orders No. 86 dated 12 October 1945, announces the award of the Legion of Merit to Colonel Earle F. Cook.

1945

- 16 Oct. Forty-eight hours VCGG authorized for officers.
- 18 Oct. Enlisted men were moved to Barracks T-500 to T-503 inclusive.
- 19 Nov. Post Planning Board terminated. New Post Planning Board appointed.
- 26 Dec. Monday and Tuesday, 24 and 25 were holidays.

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ARMY SECURITY AGENCY

WASHINGTON, D. C.

HISTORY OF THE ARMY SECURITY AGENCY

VOLUME ONE

ORGANIZATION

Part II

1942 - 1945

Prepared under the Direction of the

CHIEF, ARMY SECURITY AGENCY

CSGAS-13

13 April 1948

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~~TOP SECRET~~VOLUME ONE - PART II  
(Chapters VI-I)

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## CHAPTER VI. CIVILIAN PERSONNEL PROBLEMS 1942-1945

A. Authorizations

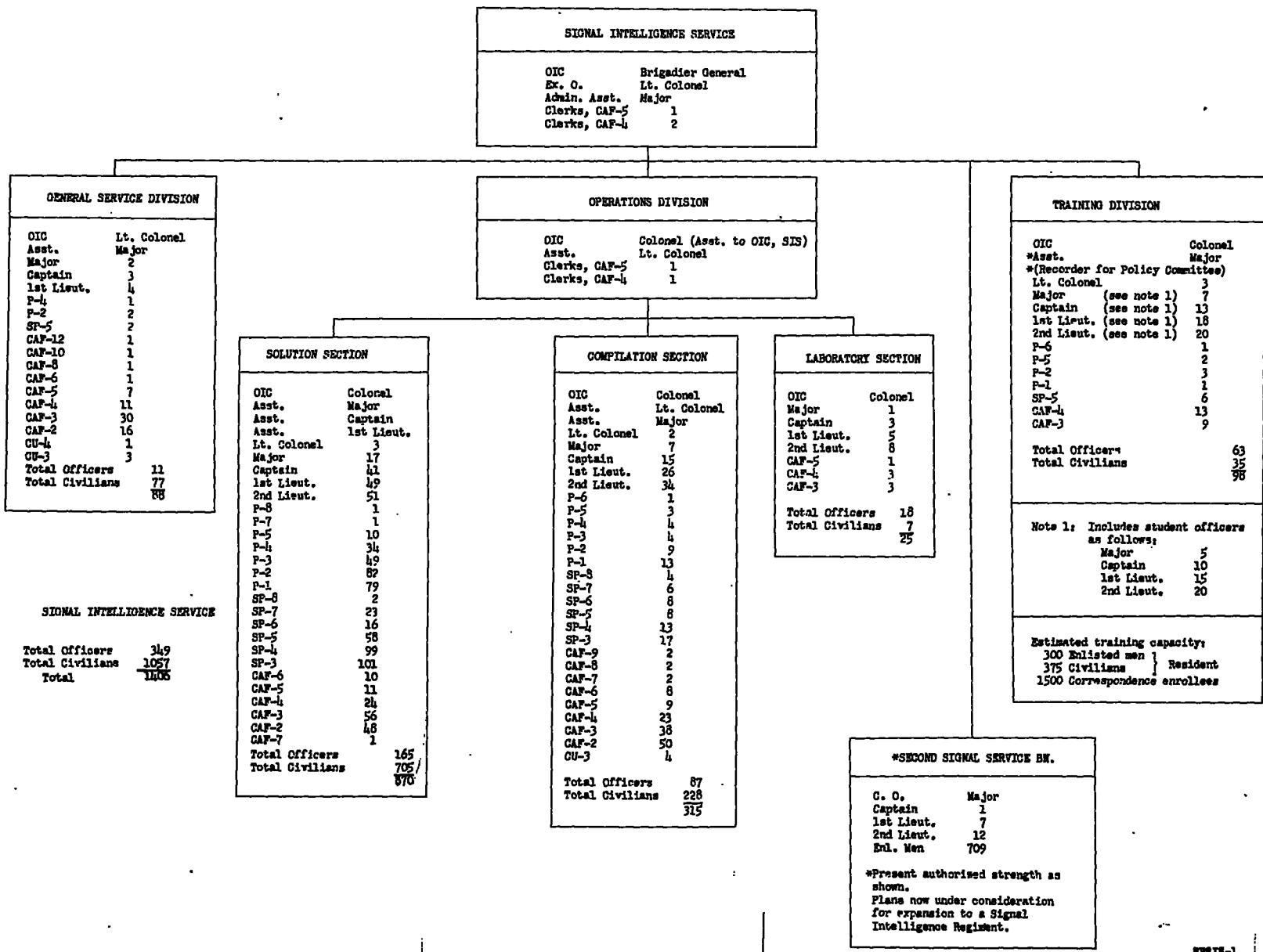
The first wartime expansion of the Signal Intelligence Service began, as we have seen, with approval of the employment of 115 additional civilians in the fiscal year 1943,<sup>1</sup> which was granted on 13 March 1942, but two months later it was seen that this expansion would be far from adequate, and therefore it was requested that approval be given for a total of 1057 civilian employees in the fiscal year 1943, a figure which, of course, included the existing allotment.<sup>2</sup> This approval was actually given, but when the first half of the fiscal year 1943 had just passed, a further request was made, and duly approved,<sup>3</sup> which gave the Signal Security Service, as the Signal Security Agency was then called, authorization for a total of 2626 additional civilian employees, or a grand total of 3683 persons.

In the month of August 1943 plans were made for requesting additional personnel to permit the Agency to comply with a directive

- 
1. The Chief Signal Officer to the Assistant Chief of Staff, G-2, 28 February 1942 (CCSigO 311.5), approved by order of the Secretary of War, 13 March 1942.
  2. The Deputy Chief Signal Officer to the Commanding General, Services of Supply, Subject: Expansion of Signal Intelligence Service, 24 June 1942 (SPSIS 311.5), approved by command of Lieutenant General Somervell on 10 July 1942.
  3. The Chief Signal Officer to the Commanding General, Services of Supply, Subject: Expansion of Signal Security Service, 6 January 1943 (SPSIS 311.5), approved by the Commanding General, 7 January 1943.

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JANUARY 1, 1963

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**SIGNAL SECURITY SERVICE**  
 Commanding Officer: Brig. Gen. Colonel  
 Executive Officer: Lt. Col.  
 Adjutant: Arlington Hall Sta. Captain  
 Asst. Adjutant: 1  
 Clerks: CAP-3 1  
 Clerks: CAP-4 1  
 Clerks: CAP-3 2

**SECOND SIGNAL SERVICE BATTALION**

**DIRECTOR COMM. RESEARCH P-3** 1  
 Clerk: CAP-3 1

**DIRECTOR OF OPERATIONS** Colonel  
 Assistant: Lt. Col. 1  
 Clerks: CAP-3 1  
 Clerks: CAP-4 1

**DIRECTOR OF TRAINING** Colonel  
 Clerk: CAP-4 1

**PROTECTIVE SECURITY**  
 Under allotment of OCSigo

**VINT HILL FARMS STA.**  
 38 Officers  
 1410 Enlisted  
 1448 TOTAL

**ARM. HALL STA. DST.**  
 1 Major (C.O.)  
 5 Capt  
 8 1st Lt  
 7 2d Lt  
 21 Officers  
 657 Enlisted  
 678 TOTAL

**GENERAL SERVICE**  
 1 Lt Col (OC)  
 2 Major  
 2 Capt  
 7 1st Lt  
 26 2d Lt  
 35 Officers  
 1 CAP-12  
 1 CAP-10  
 2 CAP-9  
 1 CAP-7  
 1 CAP-6  
 1 CAP-5  
 1 CAP-4  
 1 CAP-3  
 1 CAP-2  
 1 CAP-1  
 10 Civilians  
 108 TOTAL  
 35 Officers  
 108 Civilians  
 143 TOTAL

**SOLUTION**  
 1 Colonel (OC)  
 2 Lt Col (Asst)  
 1 Capt (Asst)  
 1 1st Lt (Asst)  
 2 Lt Col  
 13 Major  
 25 Capt  
 49 1st Lt  
 62 2d Lt  
 137 Officers  
 1 CAP-12  
 1 CAP-10  
 2 CAP-9  
 1 CAP-7  
 1 CAP-6  
 1 CAP-5  
 1 CAP-4  
 1 CAP-3  
 1 CAP-2  
 1 CAP-1  
 10 Civilians  
 174 TOTAL  
 157 Officers  
 174 Civilians  
 331 TOTAL

**COMPILATION**  
 1 Colonel (OC)  
 2 Lt Col (Asst)  
 1 Major (Asst)  
 5 Lt Col  
 11 Major  
 27 Capt  
 52 1st Lt  
 24 2d Lt  
 108 Officers  
 1 CAP-12  
 1 CAP-10  
 2 CAP-9  
 1 CAP-7  
 1 CAP-6  
 1 CAP-5  
 1 CAP-4  
 1 CAP-3  
 1 CAP-2  
 1 CAP-1  
 10 Civilians  
 128 TOTAL  
 118 Officers  
 1170 Civilians  
 1288 TOTAL

**LABORATORY**  
 1 Colonel (OC)  
 1 Major (Asst)  
 1 1st Lt (Asst)  
 2 Major  
 1 Capt  
 6 1st Lt  
 12 2d Lt  
 29 Officers  
 1 CAP-5  
 1 CAP-4  
 2 CAP-3  
 4 Civilians  
 38 Officers  
 1 Civilians  
 39 TOTAL

**ANALYSIS**  
 1 Colonel (OC)  
 1 Major (Asst)  
 5 Capt  
 20 1st Lt  
 20 2d Lt  
 27 Officers  
 1 CAP-5  
 1 CAP-4  
 2 CAP-3  
 4 Civilians  
 38 Officers  
 100 Civilians  
 138 TOTAL

**ENG. AND RESEARCH**  
 1 Lt Col (OC)  
 1 Major (Asst)  
 1 Capt (Asst)  
 1 2d Lt (Asst)  
 1 Major  
 4 Capt  
 12 1st Lt  
 5 2d Lt  
 27 Officers  
 1 CAP-5  
 1 CAP-4  
 2 CAP-3  
 4 Civilians  
 38 Officers  
 27 Officers  
 25 Civilians  
 63 TOTAL

**TRAINING**  
 1 Lt Col (OC)  
 2 Capt  
 2 1st Lt  
 2 2d Lt  
 2 Officers  
 1 CAP-4  
 1 CAP-3  
 1 CAP-2  
 7 Civilians  
 5 Officers  
 7 Civilians  
 13 TOTAL  
 STUDENTS  
 (Residence and Correspondence)  
 100 Officers—  
 (Art Hall Pool)  
 400 Officers  
 300 Enlisted  
 1500 Civilians  
 2300 TOTAL

**SUMMARY OF SSS PERSONNEL**

PROPOSED	Present Allot	Net Increase
Brig. Gen.	1	1
Colonel	7	2
Lt. Col.	17	8
Major	33	-7
Capt	75	2
1st Lt.	139	30
2d Lt.	126	51
<b>TOTAL OFFICERS</b>	<b>456</b>	<b>121</b>
<b>TOTAL CIVILIANS</b>	<b>3681</b>	<b>2626</b>
	<b>4137</b>	<b>2747</b>

\*Includes no Second Signal Service Battalion personnel, or students shown under Training Section.

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of The Adjutant General dated 13 August 1943.<sup>4</sup> A draft of the request was prepared<sup>5</sup> for the signature of the Chief Signal Officer, but this was never used and was, indeed, marked "1st original--not used 26 Aug. 43." In this draft the request for new civilian allotment was for 3070 persons. Why this figure was subsequently changed is not clear from the record, but the revised copy of the same paper, signed by the Chief Signal Officer on 3 September 1943,<sup>6</sup> requests only 2170 new civilians. The allotment of civilians therefore became as follows:

Previous allotment .....	3683
Additional allotment .....	2170
Total	5853

This was the final allotment of civilian personnel made during the War. There exist, however, in the files of the Army Security Agency a number of other documents which appear to conflict with those already cited. For example, there is a reference to approval for the expansion of the civilian allotment by 1050 persons, given

- 
4. The Adjutant General to Commanding General, Army Service Forces, Attention: Chief Signal Officer, Subject: Expansion of the Signal Intelligence Service (AG 320.2 (12 Aug 43) OB-S-3), copy now filed in General Files SP3IS 320.2 (SSA Expansion), 1935-1943, Case No. 1323.
  5. Copy now filed in General Files SP3IS 320.2 (SSA Expansion), 1935-1943, Case No. 1323.
  6. The Chief Signal Officer to the Commanding General, Army Service Forces, 3 September 1943 (SP3IS 320.2). The date, 18 September 1943, in the margin is probably that of the approval. No indorsement appears on the copy of the request now on file, but since the Agency thereafter operated on this basis the approval must have been given.

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SIGNAL SECURITY AGENCY

CHART NUMBER 1  
PRESENT AUTHORIZATION  
31 October 45

2ND SIGNAL SERVICE BATTALION

1	Colonel	
3	Lt. Colonels	
2	Majors	
13	Captains	
24	1st Lts.	
51	2nd Lts.	
Total		77
6	W.O., Chief	
8	W.O., Jr.	
Total		14
255	M/Sgt.	
258	S/Sgt.	
346	S/Sgt. & T/S	
425	Sgt. & T/4	
442	Cmp. & T/S	
524	Tvt.	
514	Tvt.	
Total		2789
TOTAL		8860

HEADQUARTERS

Brigadier General		
4	Colonels	
1	Lt. Colonel	
5	Majors	
7	Captains	
13	1st Lts.	
11	2nd Lts.	
Total		41
1	P-8	
1	CAF-12	
1	CAF-10	
1	CAF-9	
4	CAF-7	
4	CAF-5	
13	CAF-3	
30	CAF-4	
31	CAF-2	
38	CAF-2	
1	CU-4	
2	CU-3	
63	CU-2	
Total		190
TOTAL		251

DIRECTOR OF TRAINING

1	Lt. Colonel	
2	Majors	
2	Captains	
2	1st Lts.	
1	2nd Lt.	
Total		8
1	CAF-5	
2	CAF-4	
2	CAF-3	
2	CAF-2	
Total		7
TOTAL		15

PROTECTIVE SECURITY BRANCH

1	Colonel	
1	Lt. Colonel	
1	Majors	
4	Captains	
1	1st Lt.	
Total		9
1	CAF-5	
3	CAF-4	
3	CAF-3	
2	CAF-2	
Total		7
TOTAL		16

CRYPTANALYTIC BRANCH

1	Colonel	
15	Lt. Colonels	
26	Majors	
50	1st Lts.	
68	2nd Lts.	
Total		157
2	P-8	
14	P-5	
30	P-4	
75	P-3	
200	P-2	
220	T-1	
13	SP-8	
23	SP-7	
32	SP-6	
112	SP-5	
220	SP-4	
92	SP-3	
1	CAF-9	
1	CAF-8	
1	CAF-7	
33	CAF-6	
68	CAF-5	
145	CAF-4	
223	CAF-3	
212	CAF-2	
Total		1715
TOTAL		1870

GEOGRAPHIC BRANCH

1	Colonel	
7	Lt. Colonels	
11	Majors	
24	Captains	
48	1st Lts.	
45	2nd Lts.	
Total		139
1	P-7	
1	P-6	
1	P-4	
10	P-3	
17	P-2	
22	P-1	
6	SP-8	
7	SP-7	
10	SP-6	
105	SP-5	
50	SP-4	
86	SP-3	
1	CAF-9	
14	CAF-6	
24	CAF-5	
74	CAF-4	
144	CAF-3	
615	CAF-2	
Total		1146
TOTAL		1285

LABORATORY BRANCH

1	Lt. Colonel	
3	Majors	
2	Captains	
TOTAL		6

COMMUNICATIONS BRANCH

1	Colonel	
3	Lt. Colonels	
7	Majors	
12	Captains	
24	1st Lts.	
23	2nd Lts.	
Total		70
1	P-8	
2	P-5	
4	P-3	
9	P-2	
9	P-1	
1	SP-8	
6	SP-7	
8	SP-6	
2	SP-5	
2	CAF-9	
2	CAF-7	
3	CAF-6	
12	CAF-5	
101	CAF-4	
239	CAF-3	
101	CAF-2	
Total		560
TOTAL		630

DEVELOPMENT BRANCH

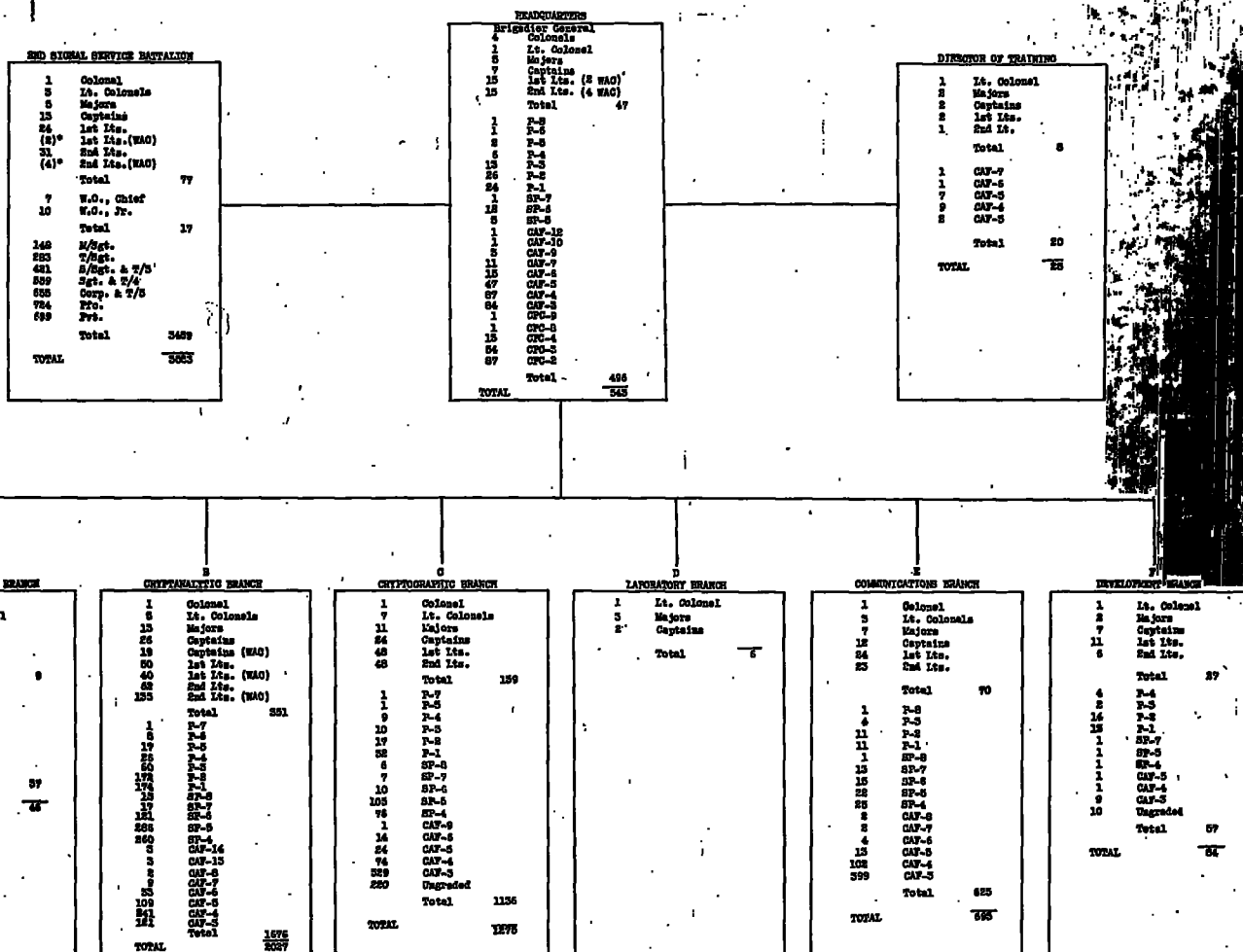
1	Lt. Colonel	
2	Majors	
7	Captains	
11	1st Lts.	
6	2nd Lts.	
Total		27
4	P-4	
2	P-3	
14	P-2	
15	P-1	
1	SP-7	
2	CAF-4	
4	CAF-3	
4	CAF-2	
16	Ungraded	
Total		60
TOTAL		87

~~SECRET~~

152a



**NATIONAL SECURITY AGENCY**  
**CHART NUMBER 2**  
**APPROXIMATION REQUESTED FOR 1 NOVEMBER 1945**

~~SECRET~~

\* Assigned to Headquarters, S.S.A., and not included in total for 2nd Signal Service Battalion.

~~SECRET~~

152b

**SECRET**

**SIGNAL SERVICE AGENCY**  
GRADE NUMBER 3  
AUTHORIZATION REQUESTED FOR 1 FEBRUARY 1944

2ND SIGNAL SERVICE BATTALION	HEADQUARTERS	DIRECTOR OF TRAINING																																																																																																																																																																																																																																																															
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(WAC)	59	2nd Lt. (WAC)	Total 411		1	P-7	6	P-5	22	P-5	112	P-5	141	P-5	222	P-5	720	P-1	12	SP-5	225	SP-7	212	SP-5	425	SP-5	521	SP-4	5	CAF-14	3	CAF-13	15	CAF-3	17	CAF-2	19	CAF-7	43	CAF-5	109	CAF-5	221	CAF-4	309	CAF-3	Total 3425		TOTAL 3698		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2">CRYPTOGRAPHIC BRANCH</td></tr> <tr><td>1</td><td>Colonel</td></tr> <tr><td>7</td><td>Lt. 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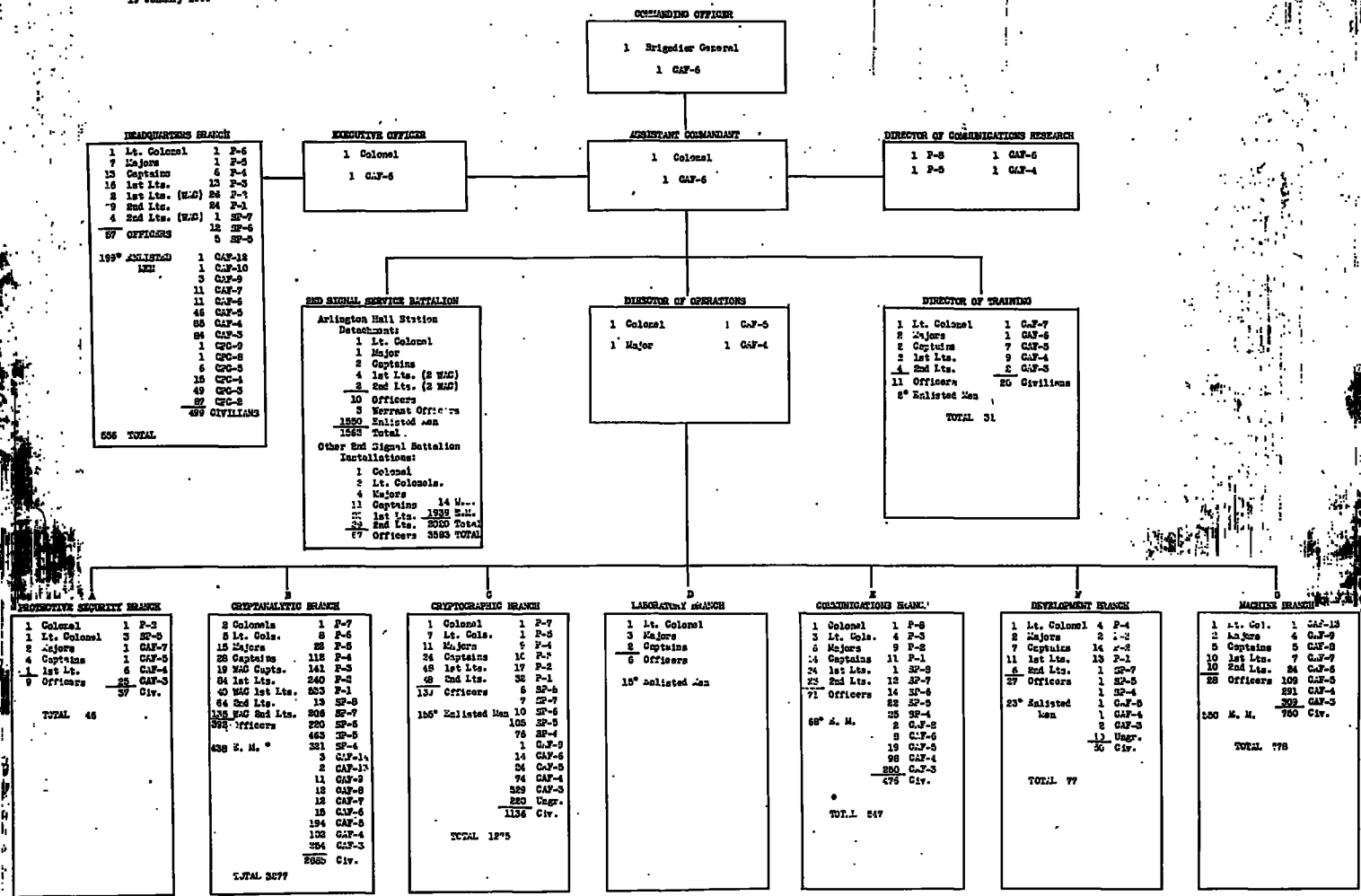
\* Assigned to Headquarters, S.S.A., and not included in total for 2nd Signal Service Battalion.

**SECRET**

SIGNAL SECURITY AGENCY  
ALLOCATION OF TOTAL PERSONNEL  
19 January 1944

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\* Included in Lt. Col. for 2nd Signal Service Battalion and excluded from branch totals. Enlisted Men include WACs.

Grand TOTAL 817 Officers  
3433 -enlisted men  
17 Warrant Officers  
2823 Civilians  
15176 TOTAL

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~~TOP SECRET~~VI. Civilian Personnel Problems 1942-1945

253

by the Deputy Chief of Staff and the Commanding General and Chief of Staff, Army Service Forces, on 6 December 1943.<sup>7</sup> This approval was not, however, an increase of the basic allotment but merely implemented the providing of the personnel. Likewise, two documents signed by the Chief, Personnel and Training Service, Office of the Chief Signal Officer, on 1 January 1944 and 31 March 1944,<sup>8</sup> also were merely fulfillment of the basic directives: they did not increase the allotment by 750 and 1200 civilians, respectively, as they seem to do. That this is true is clear from a report of the Chief, Personnel and Training Division, Signal Security Agency, to the Fiscal Director, Office of the Chief Signal Officer, made on 20 February 1945, which states that the current allotment then was 5853 civilian employees.<sup>9</sup>

A further point should be made: copies of the Army Service Forces Personnel Control Form (control approval symbol AP-1) regularly show after 30 September 1944 a total of 5047 civilians authorized. This apparent discrepancy may be explained by the fact that 5047 of the 5853 employees were subject to Public Law 49, while the remaining 806 were not.

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7. Chief, Signal Security Branch, to Chief, Army Communications Service, Subject: Revised Personnel Authorizations, 5 February 1944 (SFSIS 320.2).

8. SFSIS 320.2

9. SFSIS 320.5

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VI. Civilian Personnel Problems 1942-1945 154

B. Recruitment

In previous chapters attention has been given to the problems of the recruitment of civilian personnel for the Signal Intelligence Service in the period prior to its removal from the Munitions Building to Arlington Hall Station. Personnel functions were then administered by the Officer in Charge of the Personnel Section, First Lieutenant (afterwards Captain) James W. Drury, who had under him a small staff which formed the nucleus of what afterwards became the Personnel Branch, Personnel and Training Division. New civilian personnel were in this period regularly obtained from the Civil Service Commission, which keeps a register of qualified persons, but the Signal Intelligence Service also requested colleges to designate persons qualified to do cryptographic work. The Personnel Section also handled at this time all personnel problems affecting officers.

In June 1942 when the move to Arlington Hall Station was imminent and the subsequent expansion of the Signal Intelligence Service was about to begin, negotiations were undertaken with the Civil Service Commission and the War Manpower Commission to obtain permission to send officers out on recruiting missions. As a result, the Signal Intelligence Service was authorized to send officers into the Fourth Civil Service District (Maryland, West Virginia, Virginia, and North Carolina) for the procurement of civilian personnel. All commitments for employment were to be made by the Civil Service representatives, and certain minimum standards for employment

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were established.

A group of ten officers was selected to act as representatives for the War Department in this program. They were instructed to interview persons referred to them by the Civil Service representatives and, if these were found to be acceptable for employment, the officers were then to request that the civilians be employed. Moreover, as the recruiting officers were also instructed to assist the Civil Service representatives in the location of eligible persons, very close relationship between each Signal Corps officer and the Civil Service representative with whom he worked was highly necessary.

One problem which caused acute difficulty was the need for an extremely high degree of security in the operations of the Signal Intelligence Service. While this need was never lessened throughout the War, the procedures by which security was protected were at this time defined with such strictness that operations were in many instances hampered as a result. Nowhere was this unfortunate circumstance so keenly felt as in the case of the recruiting program, for the recruiting officers were not given sufficient information about the whole activity of the Service to make them fully competent to obtain qualified personnel. Since the exact qualifications desired were unknown to the recruiters, special efforts to locate persons with the proper qualifications frequently were impossible.

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Later, this state of affairs was rectified by giving fuller instructions to the recruiters, but in 1942 and 1943, when the manpower shortage was not so acute as it afterwards became, the stringencies of security proved a serious handicap. Furthermore, lack of full information led recruiting officers on occasion to make invalid assumptions and inaccurate and misleading statements to candidates for positions. Discrepancies between actual conditions and the tempting promises of the recruiting officers later reflected in low morale and many resignations.

Yet the immediate increase of new personnel engaged by this program of recruiting was highly satisfactory in point of numbers. As a result of the first month of recruiting (November 1942) a hundred new employees were added to the payroll. In December 1942, 381 new employees were added, and in the next month the peak figure of 665 was received. Nevertheless, the recruiting program was continued until the officers were recalled on 15 July 1943. In that last month 595 new employees reported for duty. The results of the efforts of the recruiters were felt, however, as late as September 1943, for during the period of July to September 625 new employees reported for duty. By the end of 1943 the civilian personnel strength had reached 3,455, of which 3,144 had been added since June 1942.

This first program of expansion provided valuable experience

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for those who were later to head the second wartime expansion. Reference has already been made to the problem created by the necessity of preserving security. Another problem was the necessity of working with the Civil Service representatives in strict accordance with the procedures laid down by the Commission in peacetime.

In the summer of 1943 there was a movement within the Army Service Forces to reduce the number of civilian employees in the Military District of Washington. A directive was received by the Chief Signal Officer ordering a reduction, which would amount in the case of the Signal Security Agency to approximately 33-1/3 per cent (from 3683 to 2461). To this directive the Chief Signal Officer replied in a memorandum dated 2 August 1943,<sup>10</sup> in which he recounted something of the past history of the Signal Security Agency and the importance of its work to the War. The contemplated reduction would, he stated in paragraph 5, prevent the completion of missions for G-2 and the fulfillment of existing agreements. The current strength of the Agency was 3125 civilians, but if the ASF directive were to be put into effect, the Agency would have to discharge 664 highly trained persons who would at once be employed by the Navy, the FBI, and other agencies, while

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10. Memorandum for General Somervell from the Chief Signal Officer, subject: Civilian Personnel-U. S. "Black Chamber," 2 August 1943 (SPSIS General 320.2 (S. S. A. Expansion) 1935-1942, case No. 1323), pars. 5-7.

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the Army would suffer accordingly. For this reason the Chief Signal Officer recommended (paragraph 7) that the Signal Security Agency be exempted from the order. Such exemption was approved.<sup>11</sup>

A similar crisis was experienced early in 1944, to judge from a report made by the Commanding Officer, Signal Security Agency to the Chief, Army Communications Service, on 5 February 1944.<sup>12</sup> This report inclosed tables showing authorized and actual strength of the Agency and included the following significant paragraph:

The Signal Security Agency, as an expanding installation, should be excluded from any effects of a reduction in personnel in the Office of the Chief Signal Officer. In recognition of the need to obtain the maximum intelligence from the increasing success in the interception of enemy military radio traffic, The Adjutant General issued a directive, 13 August 1944, supplementary to the basic directive, AG 320.2 (4-18-42) MC-3, which initiated the expansion of the Signal Security Agency. In this supplementary directive the Signal Security Agency was ordered to take "all necessary steps immediately to intercept, to communicate to your cryptanalytic center and to analyze all available material of this type." In order to process the material completely and expedite the delivery of the "derived intelligence to the Special Branch, Military Intelligence Service," the Signal Security Service was further ordered to "procure without delay such additional personnel, equipment and facilities as may be necessary for the accomplishment of this supplementary directive."

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11. No copy of the original directive nor of the approval of the exemption is on file in the Army Security Agency.
  12. Chief, Signal Security Agency to Chief, Army Communications Service, Subject: Revised Personnel Authorizations, 5 February 1944, (SPSIS 320. 2 (1944), Case No. 612).

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Apparently the need for maintaining the strength previously allotted was quite clear to the Conference on Revised Personnel Authorizations called on 28 January 1944 by the Director of Personnel, Army Service Forces, for the allotment of personnel to the Signal Security Agency was never scaled down.

The second great wartime program of expansion was begun on 1 February 1944. This time the 14 recruiting officers were more carefully selected and trained than had been possible in the first campaign. Moreover, the procedures designed to protect security had by this time been more liberally defined, and it was possible to give each officer a clear idea of the type of operations for which new personnel were needed. To this end tours were arranged for them of operating branches. Recruitment, by authority of Schedule A, Sub-Division 4, Paragraph 4, of Civil Service Rules, was conducted on an intraregional basis and included the states of Maine, Vermont, New Hampshire, Massachusetts, Connecticut, New York, Pennsylvania, West Virginia, Maryland, Virginia, North Carolina, Tennessee, Mississippi, Alabama, Georgia, South Carolina, Kentucky, Ohio, Michigan, Wisconsin, Illinois, Indiana, Minnesota, Iowa, Nebraska, Kansas, Oklahoma, and Missouri. Furthermore, the officers followed itineraries set up by the War Manpower Commission, conducted interviews in local offices of the United States Employment Service independently of any Civil Service representative, and had a great deal more freedom of movement than in the previous campaign.

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In February 1944 additional officers were assigned to the recruiting program in order to bring it to a quick and successful close, and these officers, after a thorough period of training, assumed their duties early in March. The high expectations for success in this program were realized. By 1 March 1944, 227 recruits had arrived at Arlington Hall Station, raising the total number of civilian employees to 2,527, and this was only a beginning--the program gained momentum, and contacts were extended. A total of 581 were added to the payroll in March 1944 and by 1 May 4,559 civilian employees were on duty. In May 221 recruits were added and sufficient commitments had been made to attain the total authorization for civilian personnel. On 30 June 1944 the total number of civilian employees was 5,155.

One factor contributing to the success of the program was the payment of transportation expenses of the new recruits to Washington. On 19 January 1944 the Secretary of War authorized this payment to employees whose first place of duty was to be Arlington Hall Station. Another factor contributing to its success was the greater care taken in the selection and training of the officers who were sent into the field. The fact that all appointments were made directly under Schedule A without reference to the Civil Service Commission also greatly assisted in speeding the recruiting of large numbers of new employees.

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The existence of the recruiting machinery made possible its use in the recruiting of enlisted women. On 25 March 1944 a letter was received from the Commanding General, Army Service Forces, directing that the Signal Corps (that is, the Signal Security Agency) assist the First, Second, Fifth, Seventh, and Ninth Service Commands in the recruiting of 600 enlisted women. In complying with this directive, a preliminary survey was made to determine what technical assistance the Signal Corps was expected to give the Service Commands. Publicity was prepared by the Signal Security Agency for the public relations officers of the several Service Commands. This included an illustrated pamphlet, "Private Smith Goes to Washington," which was designed to stimulate further interest in the program. From 1 May to 27 May 1944, 22 Wacs had been recruited in the six Service Commands. On 1 June 1944 increased emphasis was placed on the program through the reassignment of Signal Corps officers from the Civilian Recruitment Program to the WAC recruitment program.

D. Placement

The large number of new employees entering on duty even in the first recruiting program had made it necessary to relieve the Personnel Officer of assigning new employees to their first jobs. The

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function of initial assignment of new personnel was, therefore, in January 1943 transferred to the Officer in Charge of the Civilian Training School, to which all entering civilian employees were at once assigned. This officer worked, however, under several difficulties. In the first place, it was necessary that each new employee before assignment be thoroughly investigated by the Post Intelligence Officer. Many of these investigations were not completed for as long as three or four months. In the meantime the employees remained in the Civilian Training School,--much longer than could be justified for purely training purposes. This resulted in considerable waste of money and manpower and in bad morale. The problem was eventually overcome by speeding the service on the investigations and by finding temporary work of an unclassified nature for those whose investigations were necessarily being delayed.

In the early part of 1943 all the branches needed so many new employees that no attempt was made to designate what kind or quality of employee a branch desired. Branches were constantly requesting personnel in large numbers. It was not unusual to receive a request for 200 clerks with no stipulation as to classification, age, education, or experience. Technological advances were proceeding at so rapid a pace that frequently it was not possible to predict exactly what specific qualifications would be necessary. For this reason, and because of the security problem, the Placement Officer could not know what the employees were expected to do. He was not author-

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lead to enter any branch to see what work was being performed nor did he have any general idea of the type of person needed by each branch. This frequently caused improper initial assignments and resulted in personnel problems and low morale for months after the situation was corrected.

With the initiation of the second recruitment program and the relaxing in November 1945 of the security regulations, the Placement Officer toured the branches in order to gain knowledge of the work done there. As long, however, as personnel were requested in groups the replacement office was fundamentally a record-keeping office.

On 21 February 1944 the Chief, Administrative Branch, directed that new personnel be assigned only to jobs which had already been allocated and also that personnel be assigned for specific positions rather than generally. This directive was a big impetus toward the desired goal of the maximum utilization of personnel. The increased information afforded by the job description and the information obtained by the Placement Officer from his own personal surveys of these jobs made possible an efficient original assignment of each employee to a job where the employee's highest skills would be utilized.

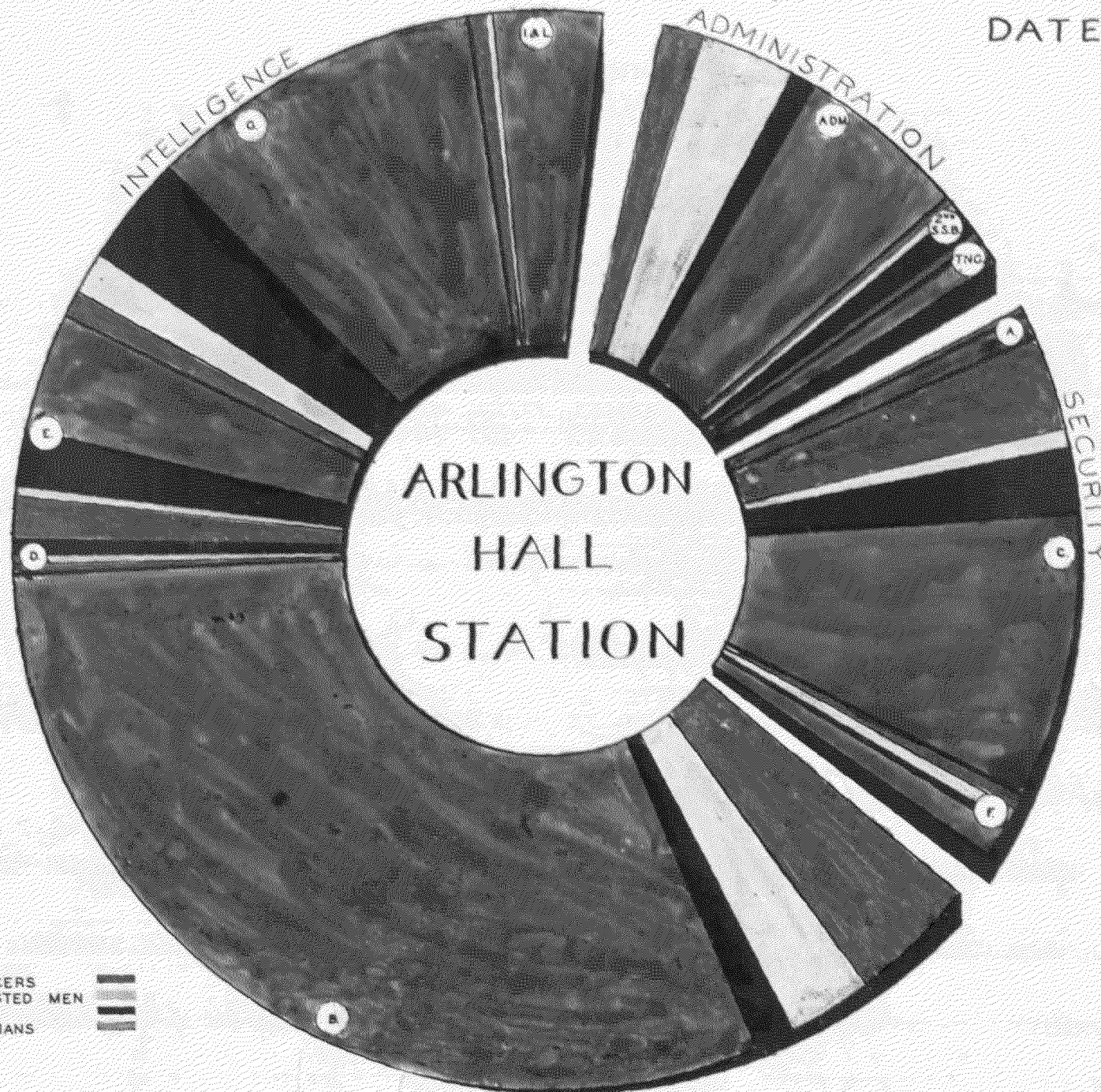
The condition of the labor market during this period was such that it was advisable, if possible, to give considerable weight to

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# DISTRIBUTION OF PERSONNEL

DATE: 1. MAY 1944



KEY: OFFICERS  
 ENLISTED MEN  
 WAC  
 CIVILIANS

	O	EM	WAC	CIV	TOTAL	PCT
ADM.	17	127	15	253	512	10.7%
Z SSB	2	11	25	—	48	1.0%
TRAINING	12	—	8	50	70	1.4%
A BRANCH	10	—	5	50	65	1.3%
C	26	20	13	620	689	14.3%
F	20	7	12	50	89	1.8%
B	214	170	78	1711	2173	45.0%
D	5	5	13	—	23	0.5%
E	20	5	14	207	246	5.1%
G	24	10	100	767	901	18.7%
I&L	17	4	—	124	145	3.0%
TOTAL S	447	460	415	4040	5362	100.0%

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the desires of a candidate as to the type of job he wanted. Until personnel were requested for specific jobs, no consideration could be given to this prime factor. That this move had not been made sooner was unfortunate, but the changing needs of the operating units made it often very difficult to anticipate specific personnel needs. In the period between March and June 1944 a gradual change took place. Branch Personnel Officers began to send badly assigned and maladjusted employees to the Placement Officer for reassignment, and a great many of the factors which had caused personnel problems were being eliminated. In the meantime new employees were being placed in jobs which better fitted their qualifications. Thus, the Placement Office had evolved from a record-keeping unit to an office engaged in personnel placement.

From the beginning until February 1943 all requests for personnel were handled by the Chief Clerk, and, as the total number of civilian personnel mounted, there was a corresponding increase in the volume of work in the Chief Clerk's office. This work included such matters as separations, processing of new employees, and keeping of records. It was therefore decided to relieve that office of work involving separations, which had, unfortunately, been growing steadily in number. An interviewer in the Civilian Training School was appointed to handle the exit interview so that all people who left the Post would be properly processed in accordance

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with the Civilian Personnel Regulations of the War Department. The information derived from these interviews was coordinated and turned over to the Post Personnel Office in the form of a weekly report.

When the Civilian Training School was moved from Headquarters Building to one of the operations buildings, the exit interviewer, who also acted in the capacity of School interviewer, was naturally affected by this transfer. It became necessary for resigning employees to proceed from the branch where they were employed to the Post Personnel Office to have their separation papers processed and then to the Civilian Training School for the exit interview. The inconvenience of this arrangement was corrected by having all of the work handled by an exit interviewer in the office of the Post Personnel Officer.

E. Separations

In the spring of 1943 monthly separations reports were initiated which analyzed resignations by branches, classification, and reasons for resignation. These analyses have proven to be of great value in eliminating many of the causes for resignations. Where comparisons have indicated an abnormal proportion of resignations from a particular branch over a period of time, attention has been directed to this fact and recommendations of possible corrective actions have been made to the branch chief. Other factors disclosed by these reports have had an important effect on the operations and efficiency of the Agency. For example, when it

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was noted that separations were heavier than usual during the months of August and September each year, a check of the reasons given for resigning and the length of service showed that numerous employees who were recruited at the end of the school terms in the spring were returning to school either as teachers or students in the autumn. A verbal recommendation was made, therefore, that recruiters ascertain whether or not prospective employees who were school teachers or students intended to remain for the duration of the War or for their summer vacation only. The policy was then established of hiring no temporary employees. A check with other agencies confirmed the fact that they had had the same problem.

In August 1943 separations became the responsibility of the Assistant Post Personnel Officer with a staff of three clerks and an administrative assistant. The mission of that office was to make final decisions regarding removals and transfers, to effect disciplinary action, and to interpret War Manpower Regulations concerning the granting of releases.

As a result of the 1943 expansion program the civilian strength of the Agency increased from 935 to 3,602 during the first seven months of that year—a gain of 285 per cent, and it was anticipated, in view of the scarcity of qualified persons available for employment, that the turnover resulting from this expansion would be high. Separations remained at a fairly constant percentage, however, during

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this period of expansion, averaging about five per cent each month. The civilian personnel strength during the next seven months, from September 1943 until March 1944, remained relatively stable and the percentage of separations actually declined, averaging less than four per cent monthly.

The second expansion program, which was begun on 1 February 1944, increased the civilian strength to 5,155 (30 June 1944) and separations again rose to an average of five per cent a month. As both expansion programs were conducted in the midst of a war-shortage labor situation, it was to be expected that many persons would be procured who would later be found to be incapable of absorbing the training necessary to the satisfactory performance of the work. Other Government agencies had this experience and the monthly turnover figures of some showed an even higher separation rate.<sup>13</sup> Greater emphasis on selectivity in recruitment and close observation during training of each new employee were the corrective measures adopted by the Signal Security Agency to reduce to a minimum the ill effects of too rapid expansion.

An analysis of voluntary separations through resignation for the first six months of 1944 disclosed four major contributing causes for resignations:

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13. The turnover rate in 1944 for the Army Service Forces was 8.1 per cent, while that for the Signal Security Agency was 4.4 per cent for the same period.

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1. Obligations to parents was listed as the cause of 30 per cent of all resignations. Most of these cases were caused by pressure from parents to induce the employee to return home, either for financial reasons or because of the illness of relatives. Since the permanent home of most employees was many miles away, obstacles of this kind were hard to overcome. Some success in combating this type of resignation was made by having the Employee Counselors contact the parents of employees in order to point out the value of the employee's services to the war effort. Maternity cases and the necessity for some employees to return home to care for children were also included in this category.

2. A desire to marry or to live with husband was listed as the cause of approximately 20 per cent of resignations. The high percentage of young women among the employees, and the increasing numbers of soldier husbands returning from overseas, accounted for the large number of resignations for this cause.

3. Ill health caused 17 per cent of the resignations. This figure is reliable since it is the policy of the Agency to require the resigning employee to present a medical certificate or to be examined by a member of the staff of the Medical Division, Office of the Secretary of War to verify the claim of ill health. It has been found from experience that persons suffering from a sinus condition or from other chronic nose or throat ailments are adversely affected by the climate of the Washington area. Recruiting policy later rejected applicants whose medical examination disclosed one of these afflictions and strongly warned other applicants of the ill effects of this climate when a tendency toward the condition exists.

4. Educational requirements, either those of students or teachers, who were returning to school, were given by 12 per cent as the reason for resigning. All were told during the exit interview that their desertion of vital war jobs would handicap the total war effort, and some were dissuaded when they realized the truth of this statement. Many, however, made this decision during the period of optimism caused by good reports from the battle fronts which led to the belief that the War had already been won, and it was impossible to keep this group on the job.

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**TOP SECRET****F. Processing New Employees**

Processing a new employee includes the obtaining of the Civil Service authority, effecting transfers, and preparing personnel papers.

Before July 1942 the function of processing new employees of the Signal Intelligence Service was performed by the Civilian Personnel Section of the Office of the Chief Signal Officer, then located in Temporary Building A, 2d and T Streets, S. W., Washington, D. C., but on 13 July two representatives of that Section reported for duty at the headquarters of the Signal Intelligence Service, (then in the Munitions Building) and with several SIS employees proceeded to the George Washington University at 21st and G Streets, N. W. to process 34 persons reporting there for duty. Thus was begun the work of the unit later known as the Transactions and Records Unit of the Personnel Branch.

When, on 24 August 1942, the Signal Intelligence Service administrative units were moved to Arlington Hall Station, the Transactions and Records Unit was not only faced with the task of setting up its equipment in the new location but also with the necessity of processing 98 persons on the same day. The activities of this Unit were naturally very closely related to recruitment. The peak day was 1 February 1943, when approximately 120 persons were processed. Monthly accessions to the personnel strength of the Agency (Tab from 13 July 1942 through December 1945 were as follows:

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Monthly AccessionsPersonnel Strength 13 July 1942 through December 1945

	<u>1942</u>	<u>1943</u>	<u>1944</u>	<u>1945</u>
January		684	86	219
February		660	272	380
March		541	706	468
April		348	630	645
May		362	435	362
June		602	656	463
July	(13-31)	87	347	468
August	104	208	173	137
September	45	105	152	7
October	43	91	104	20
November	100	70	115	31
December	362	49	107	20

In May 1944 the Qualifications Unit was organized to appraise the qualifications of personnel and effect requested changes in status. In May and June 1944, 478 changes in status were effected.

New employees of the Agency were required to fill out forms providing a complete record, insofar as it was of interest to the Agency, of their past history, and in addition were required to subscribe to two oaths. The first of these, required of all employees of the Government by the Civil Service Regulations, and made a part of the Personal History Statement form of the Civil Service (Tab 2e), is as follows:

I, \_\_\_\_\_, do solemnly swear or affirm that I will support and defend the Constitution of the United States against all enemies, foreign and domestic, that I will bear true faith and allegiance to the same; that I take this obligation freely without any mental reservation or purpose of evasion; that I will well and faithfully discharge the duties of the office on which I am about to enter, so help me

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God. I do further swear or affirm that I do not advocate nor am I a member of any political party or organization that advocates the overthrow of the Government of the United States by force or violence; and that during such time as I am an employee of the Federal Government, I will not advocate nor become a member of any political party or organization that advocates the overthrow of the Government of the United States by force or violence.

I do further certify that (1) I have not paid or offered or promised to pay any money or other thing of value to any person, firm or corporation for the use of influence to procure my appointment; (2) I will inform myself of and observe the provisions of the civil service law and rules and executive orders concerning political activity, political assessments, etc.

I do further certify that all statements made on this personal history statement are true, complete, and correct to the best of my knowledge.

In addition to this oath, another, relating to security, was required of all personnel, military as well as civilian. The form of this oath (Tab 2f) varied slightly from time to time. Finally, each new employee was required to sign a Patent Declaration, the text of which is to be found in Tab

G. Payroll

The Payroll and Leave Section of the Personnel Branch came into existence on 24 December 1942. For the 18 months previous to that time preparation of the payroll vouchers had been one of the responsibilities of a clerk who performed general duties in the personnel office. The voucher was prepared twice a month on standard form No. 1013 (Payroll for Personal Services) and was a relatively

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simple matter. Under this system the disbursing officer (Finance Officer, U. S. Army) was responsible for the verification of the computations shown on the voucher, and the Officer in Charge, Signal Intelligence Service, was not held accountable for the maintenance of any records other than those of retirement deductions.

The period 1 July 1941 to 23 December 1942 involved many major changes in payroll procedure. War bond deductions began to appear on the voucher for the period 9 May through 23 May 1942; retirement deductions were increased, effective 1 July 1942, from 3-1/2 per cent to 5 per cent. The establishment of payrolls which would contain the names of no more than 300 employees was another change. The payroll for the period 24 October through 8 November 1942 was in the gross amount of \$37,086.44 and authorized payment for 497 employees.<sup>14</sup>

The Finance Officer, U. S. Army, assigned the following block of numbers for the use of the newly established payrolls of the Signal Security Branches: 476, 477, 480, 481 and 482. Payrolls 476, 477, and 480 were activated on 9 November 1942. Payrolls 476 and 477 were comparatively easy because they carried employees with relatively high classifications and correspondingly good attendance records, whereas payroll 480 was always difficult to handle because it carried employees of CAF-2 and CPC-2 ratings, with their characteristic poor attendance records, and, also until the establishment of a per diem roll on 23 December 1942, the ungraded employees.

<sup>14</sup> Letter from the Finance Officer, U. S. Army, 4 November 1942.

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Before 1 December 1942 all payroll authorization papers were issued in the Office of the Chief Signal Officer, the technical service under which the Signal Security Agency operated. War Department Orders "M", dated 13 August 1942, directed that all personnel actions be decentralized in both department and field services of the War Department, and thereafter payroll authorization papers were prepared in the Personnel Section.

In approving the Revenue Act of 1942, Congress authorized deductions of a three per cent Victory Tax, effective with the first payment made in January 1943; and the War Overtime Act of 1943 which was passed was made retroactive to 1 December 1942. These deductions presented a difficult problem to the payroll units. In order to provide for them and for other deductions which might be made in the future, the War Department appointed a board to study the method used by the Metropolitan Life Insurance Company, the General Motors Corporation, and the General Electric Company. As a result of this study a new payroll procedure was developed and outlined in War Department Circular No. 412, dated 18 December 1942. Establishment of the system was to be effective with the first payment made in January 1943.

Under authority of Circular No. 412, a Fiscal Officer was appointed per Special Orders No. 92, dated 21 December 1942, to be responsible for the fiscal affairs of the Agency. Special Orders No. 94, dated 23 December 1942, however, amended that order, making this officer the Fiscal and Certifying Officer, and also appointing

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him as War Bond Officer.

The authorized operations of a payroll system in brief were as follows:

1. Establishment of an individual earnings record (War Department Form 43) for each civilian employee, to be effective with the first payment after 31 December 1942 and to be maintained for a period of a year at a time.
2. Establishment of a payroll made up of individual earnings records not to exceed 400 names. The operation and accuracy of computation was to be the responsibility of the payroll clerk.
3. Establishment of a payroll certification control.
4. Establishment of a system for preparing War Bond insurance schedules.
5. Establishment of a method for collecting Victory Tax and reporting methods in connection therewith.
6. Establishment of a method of reporting Civil Service retirement collections.
7. Establishment of a method of closing and balancing accounts with the disbursing officer.

The year 1943 was, in the Payroll Unit, one of experimentation. Operation was complex and difficult because of new developments and unforeseen problems encountered in the installation of the payroll system, the continued recruiting program, cramped quarters, difficulty in procuring additional machines, typewriters, and other necessary office equipment, and the fact that payroll clerk jobs were allocated at a CAF-3 rating, which was felt to be too low in view of the amount of work and responsibility involved.

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Civilian Personnel Regulation No. 120, issued on 13 December 1943, gave the first clear and comprehensive picture of methods and rules to be followed in operating the payroll system. It contained answers to many of the problems that had arisen in connection with payroll work. It also explained the operation of a War Bond Control. Such a control was established immediately, and it has operated successfully since that date.

During 1942 and earlier the payroll operation could be carried on by clerks with no particular background and experience in payroll operations, but, with the establishment of the new payroll system in 1942, it soon became evident that the position of payroll clerk required a background of payroll or bookkeeping experience. Accordingly, an analysis of the position of payroll clerk in March 1944 resulted in the upgrading of this position from CAF-3 to CAF-4, the classification now standard throughout the War Department. The establishment of the CAF-4 position was a decided aid not only in quieting complaints about underpayment for the work performed but also in procuring employees of a higher calibre and better background than could be had under the CAF-3 rating.

The turnover of personnel in the Payroll Unit averaged two to five clerks a month during 1944, the greatest turnover being in payroll clerks. An analysis of transfers and resignations from the

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Unit revealed the following reasons:

1. The work carried heavy responsibilities and requires constant and concentrated attention.
2. There are dead lines to meet twice a month, and at the end of each quarter. Moreover, there are two extremely heavy work periods, one in the hottest months of the year and the other in the Christmas holiday season. As a result the leave and vacation periods of the payroll clerks fall into a very rigid pattern, in fact, a great deal more so, it is felt, than in any other CAF-4 position at Arlington Hall.
3. The payroll clerk position qualifies the employee for a CAF-5 position at the General Accounting Office and in many fiscal sections of other agencies. As the number of CAF-5 positions in this Unit is limited, some of the qualified clerks are pirated by agencies which can offer immediate CAF-5 positions.

During 1942 the matter of maintaining time and attendance reports and leave accounts for employees was not difficult. The system was a negative one, that is, the employee was marked present unless reported absent in the Morning Report, which was made daily by the Branch Personnel Officer. During the rapid expansion in 1943 and 1944, however, this system proved unsatisfactory on account of many errors in reporting time which resulted from three-shift operation, transfer of personnel between the branches, separation of employees, poor attendance records of the lower grade employees, and other contributing factors.

A yearly attendance record for each employee on duty at the station was, and is, maintained in the Payroll Unit by a group of CAF-3 Time Clerks under supervision of a CAF-4 clerk.

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The War Bond Officer began operating on 23 December 1942. He has been responsible for eight drives as indicated below:

<u>Date</u>	<u>Drive</u>	<u>Results Obtained</u>
1943	American Red Cross	\$ 5,794.03 [contributed]
1943	Third War Bond Drive	95,115.25
1943	Community War Fund	9,304.25 [pledged]
1944	Fourth War Bond Drive	87,048.25
1944	American Red Cross	15,385.52 [contributed]
1944	Community War Fund	42,106.46 [contributed]
1944	Sixth War Bond Drive	125,230.50

Throughout this period the Agency consistently maintained its War Bond Payroll participation at the required level, (90 per cent payroll participation and pledges amounting to 10 per cent of the payroll).

#### H. Classification

The functions of the present Classification Unit, previous to 1 September 1942, were handled by the Civilian Personnel Section of the Office of the Chief Signal Officer. Instructions "M" of the War Department, on that date authorized the Commanding Officer, Arlington Hall Station, to take final action in regard to promotions or reclassifications of civilian personnel. Machinery was then set up to accomplish the duties associated with the proper functioning of the Classification and Wage Administration Office. This involved: (1) a survey of positions and the determination of the proper classification, designation, and grade of such positions; (2) the preparation of studies and recommendations on ungraded

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positions; and (3) the maintenance of liaison with other organizations charged with the responsibility for management analysis control.

In order to accomplish this mission effectively, it was necessary to set up special training courses in (1) the principles of classification as outlined by authorities on position analysis, (2) departmental policies, standards, and procedures, (3) the Civil Service rules and regulations, (4) the Comptroller General's decisions and other established legal requirements.

By 30 June 1944 the Classification and Wage Administration Office had grown from 1 to 12 members, 9 of whom were Classification Analysts assigned to the service of the several divisions of Arlington Hall Station.

Previous to 1 January 1944, when employees were recommended for promotion a position description questionnaire was submitted with each recommendation. The duties and responsibilities outlined therein were reviewed, verified, when necessary, by desk audit, and then allocated. Effective 1 January 1944 a special Classification Sheet was designed to provide a permanent copy of the factors necessary to the proper allocation of each position.

#### I. Employee Counseling

The first employee counseling unit was set up in October 1942. The unit was composed of a Post Counselor with an office in Headquarters Building.

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During the winter of 1942-1943 the office of Employee Counselor handled Group Hospitalization Insurance, an Emergency Loan Fund, the publication of a Post News Letter, and all recreational and volunteer activities.

In May 1943 the Red Cross was invited to send a Mobile Unit to Arlington Hall Station to set up a Blood Donor program. In five days a total of 663 donors was obtained. Thereafter a quota of 150 donors a month was set up and recruitment continued.

A lecture program was planned in July 1943 in order to give the employees of Arlington Hall Station a knowledge of their relationship to the war effort. The speakers included: Mr. William F. Friedman, Director of Communications Research; Colonel Earle F. Cook, Chief of B Branch; The Honorable Joseph C. Grew, Special Assistant to the Secretary of State; Brigadier General J. V. Matejka, Chief, Personnel and Training Service in OCSigO; Rear Admiral Joseph Redmond, Director of Naval Communications; Mr. Charles F. Taft, Director U. S. Community War Services, Federal Security Agency; Mr. Byron Price, Director of Censorship; Dr. Arthur Flemming, Chairman, Management-Labor Policy Commission, and member Manpower Serving Board, Navy Department.<sup>15</sup>

In the summer of 1943, owing to the great expansion of the Agency, it was decided that the Post Counselors needed branch assistants to

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15. Recordings made of the speeches of the last six speakers mentioned are available in the archives of the Historical Unit, ASA.

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help in carrying on the work; thus, five assistants were added to the unit.

The need for an overall health program with emphasis on group hospitalization and utilization of community activities led to the appointment of a Health Counselor.

The aims of the Counseling Unit were, broadly speaking, to assist the employees with off-the-job problems and to interpret employee attitudes and needs to the management with a view to decreasing turnover and absenteeism. The difficulty of securing adequately trained counselors prevented the program from attaining its maximum usefulness. The limitations imposed by security regulations and the relative inaccessibility of the Post tended to present obstacles in the path of a successful counseling program, with the result that emphasis was placed on services rather than on counseling.

In order to secure the additional personnel required, it soon became necessary for the Agency to assure the new recruits satisfactory housing accommodations. To do this, in December 1942, a Housing Office was established. As there were no listings of available rooms, and no government dormitories, it was necessary for the officer in charge to be out of his office much of his time securing rooms.

The number of new employees to be housed grew until it became necessary to add to the Housing staff. By January 1943 the demands were so great, and rooms so scarce, that it was necessary to effect

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a thorough canvass of Arlington County, going from door to door to secure every available room, and also to contact the various War Housing Officers.

The Federal Housing Authority greatly aided in solving the problem by constructing Arlington Farms. During the first week in March 1943, Idaho Hall, (named for the Housing Officer at Arlington Hall Station, whose home state was Idaho, because of his interest and efforts in having the dormitories finished) was opened to "Government Girls."

With the assistance of Arlington Farms, the various War Housing Offices, and cooperative housewives, the housing situation was alleviated.

In an effort to solve the serious morale problem caused by war-time conditions, attention was given to recreational facilities for the civilian employees. Such facilities as there were on the Post were not available for civilians because Arlington Hall Station was a military reservation with large numbers of military personnel, who had first claim to the tennis courts, the fields, the gymnasium, and the swimming pool. The employee counselors, therefore, turned their attention to establishing liaison with other agencies in the Washington area to make available for our employees the recreational resources of the Nation's Capital. As a part of this program groups of young women were sent to dances in Washington and on neighboring military posts. The counselors arranged picnics and parties and, through bulletins, notified civilian employees of events of importance in Washington.

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## CHAPTER VII. THE SECOND SIGNAL SERVICE BATTALION

A. Founding of the Company

The problem of providing administratively for the large numbers of enlisted personnel needed by the Signal Security Agency for the successful completion of its mission was met by assigning these enlisted men and women to the Second Signal Service Battalion, an organization which, as the War progressed, embodied many features not ordinarily associated elsewhere in the Army with the orthodox conception of a battalion. In strength, for example, the growth of the Battalion was phenomenal: at the end of the War it had surpassed 5,000 officers and enlisted men and women. The headquarters of the Battalion, in reality merely an Adjutant's office, never left the Military District of Washington, though detachments were stationed all over the world, and the work of the Battalion as a whole made outstanding contributions to the progress of military operations in every theater. In addition, the Battalion was ultimately, when hostilities ceased, commanded by a Brigadier General. Such departures from normal battalion organization were, however, fully justified by the success which attended the activities of the Second Signal Service Battalion.

Originally the Battalion on 1 January 1939 was activated as the Second Signal Service Company. Before that date the Signal Intelligence Service had been dependent for intercept material upon the

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services of the First Radio Intelligence Company at Fort Monmouth and on signal detachments of five Signal Service companies located as follows:

- 7th - Fort Sam Houston, Texas
- 8th - Presidio, San Francisco, California
- 9th - Fort Shafter, Territory of Hawaii
- 10th - Fort McKinley, Philippine Islands
- Panama - Quarry Heights, Canal Zone

These individual detachments functioned under the supervision of the signal officer in their respective corps areas or departments. There was, however, a need for a centralized control in the person of a single company commander who could integrate, as no single officer then responsible for the units could, all personnel matters connected with their intercept missions.

The existing situation constituted a threat both to the security and to the general efficiency of the work as a whole, as well as to the morale of the men themselves, facts which will be clear from the following quotation taken from a letter of the Chief Signal Officer to The Adjutant General on 2 September 1938:

2. Whereas the results achieved by the Signal Intelligence Service in Washington are treated with the utmost in care and secrecy, equal measures of secrecy are not taken with the personnel of the signal intelligence detachments in the field. The personnel of the signal intelligence detachments cannot long be unaware of the nature of the work in which they are engaged and the ultimate secrecy of the system as a whole depends just as much upon them as upon the personnel in Washington. At present the choice of signal intelligence detachment personnel is left to the corps area and department signal officers and there is no doubt that they exercise every possible precaution. However, in the present form of organization much is entirely out of their hands and beyond the control of the Chief Signal Officer. For example, a skilled member of

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the signal intelligence detachment in Hawaii is returned to the mainland. Unless he is in Grade 4 or above he is reduced to the grade of private and returned for haphazard assignment by the normal process. Even if he is eventually assigned to a signal intelligence attachment on the mainland, he must begin afresh in the grade of private and work himself up. Knowledge of this actuates many to separate from the service; every such man separated from the service carries with him a fairly accurate knowledge of the work upon which the Signal Intelligence Service is embarked and he constitutes just one more threat to the secrecy of the work. He is a far greater threat when separated from the service since he is no longer under military surveillance.

3. The haphazard movement of the enlisted personnel engaged in signal intelligence work also makes their training more difficult and lessens the effectiveness of the Signal Intelligence Service. The useful member of the signal intelligence detachment must be first of all an excellent radio operator and beyond that must acquire skill and experience peculiar to signal intelligence work; the acquisition of this skill and experience requires from six months to a year under competent instruction. At present, it is not possible to surely retain trained men; indeed it is not even possible to surely retain competent instructing personnel.<sup>1</sup>

This letter goes on to recommend that the six detachments mentioned above be organized into the Second Signal Service Company, the personnel of which could be transferred, without loss of grade or rating, from one detachment to another as need required. In order to minimize the number of highly skilled personnel separating from the service, it was recommended that the company be allocated grades and ratings considerably higher on the average than is normal elsewhere in the Army. A further advantage of the plan proposed was that it

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1. The Chief Signal Officer to The Adjutant General, subject: Signal Intelligence, 2 September 1938, OCSigO-330.3 RID.

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did not require additional men, grades, ratings, transportation, or equipment, since the suggestion merely involved centralizing the control over the six detachments already supplying the intercept material.

The plan was officially approved, as stated in the recommendations of 15 November 1938, to go into effect on 1 January 1939.<sup>2</sup> The administrative arrangements for the company were outlined in a letter of 30 November 1938, sent to the signal officers in the corps areas and departments concerned.<sup>3</sup> The first commanding officer of the new company was to be designated by the Commanding Officer, Fort Monmouth.<sup>4</sup> Detachments on duty at other stations were to be placed on detached service and provided, as before, with administration, rations, and quarters by the Signal Service Company in their respective corps areas or departments.

The company was to be administered in a manner not dissimilar to other Signal Service organizations with certain exceptions, as is made clear in the following quotation from the letter of 30 November 1938 already cited:

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2. The Adjutant General to the Chief Signal Officer, subject: Second Signal Service Company, 15 November 1938, AG 320. 3 (9-2-38) Misc. (ret)-9-M.
  3. The Chief Signal Officer to the Signal Officer, Panama Canal Department, subject: Second Signal Service Company, 30 November 1938, OCSigO 320.22.
  4. This delegation of authority of appointment was limited to the designation of the first company commander only.

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When requisitions for foreign service replacements of members of the 2d Signal Service Company are forwarded to the Chief Signal Officer by The Adjutant General, such requisitions will be extracted to the Commanding Officer of the 2d Signal Service Company, through the Commanding Officer, Fort Monmouth, the name of the replacement recommended, and the station from which the replacement is taken. The Commanding Officer, 2d Signal Service Company, will be responsible for maintaining both mandatory and volunteer foreign service rosters for the members of his organization. Applications for foreign service from members of the 2d Signal Service Company detachments will be forwarded through the Corps Area or Departmental Signal Officer direct to the Commanding Officer of the 2d Signal Service Company.

As the Second Signal Service Company was constituted in the basic directives of 15 November 1938, the grades and specialists ratings taken from the five detachments and the 1st Radio Intelligence Company were as follows:

Grade	Number in <u>Grade</u>	Number of <u>Specialists</u>
1	2	5
2	2	16
3	2	25
4	9	22
5	7	6
6	29	4
7	20	
Total	101	78

The total authorized strength was therefore 101 enlisted men, of whom 78 of the 79 men in Grades 6 and 7 could be specialists. This allotment of grades was, however, almost immediately changed by the addition of one each for Grade 1, Grade 3, and Grade 4, with a corresponding deduction of three in Grade 7<sup>5</sup>, leaving the total number of men the same.

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5. The Adjutant General to the Chief Signal Officer, subject: Allotments of Grades and Ratings, 12 January 1939, AGO 221, (1-7-39) Enl.

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B. Early Expansions

Another early attempt was made, however, to increase the allotted strength when the Chief Signal Officer replied to a request of The Adjutant General under a number of different military situations.<sup>6</sup> These paragraphs are worth quoting in full:

c. The detachments of the Second Signal Service Company, as now constituted, are properly located, but are lacking in personnel and equipment to perform the necessary intercept work against four countries, during peace, impending neutrality, or enforced neutrality. Appendix III, which deals with the details of the proposed peacetime reorganization and expansion of the Second Signal Service Company, shows in III-A a proposed table or organization for the company, in III-B the ultimate cost of the additional grades and ratings, in III-C a plan for the five-year expansion of the company and in III-D the additional equipment needed, together with a plan for its procurement in five years.

d. The proposed reorganization calls for an increase of 34 men in the peace strength of the company and for a very considerable increase in the grades and ratings allotted to it. Experience has shown that in intercept work, one well trained and experienced man is worth at least three ordinary operators. By offering relatively high grades and ratings to the personnel of the company, the finest type of radio operators can be attracted and held. It is hoped that the men who enter the company will make that service a lifetime career. This is most desirable, not merely to obtain and keep experienced men but far more in order to maintain the secrecy of the work. At the present time, when there is little inducement to the soldier to make intercept work a career, there is passing through our intercept detachments a steady stream of men who return to civil life. Each of these is fully aware of the purpose of the work and constitutes a potential leak for information about the signal intelligence service. The provision of relatively high pay for intercept work has been tried by the Navy Department with excellent results: it employs fewer operators to do a given task and its operators remain in the service.

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6. 1st Ind., The Chief Signal Officer to The Adjutant General, 17 April 1939, OCSigO 320.3 S.I.S. (9-24-38), particularly pars. 5 c-g and Appendix III.

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e. As explained in Par. 7 of Appendix II-F, a part of the proposed increase in the Second Signal Service Company is intended to produce enlisted cryptanalytic clerks; this is felt to be a highly desirable addition.

f. On outbreak of hostilities, it will be necessary to augment the Second Signal Service Company and to establish new intercept stations near Seattle, Washington and near Washington, D. C. A proposed war strength organization is given in Appendix III-E. Plans for the equipment of these wartime stations have been included in the Chief Signal Officer's Mobilization Plan.

g. In peace the company will function under the direction of the Chief Signal Officer. If hostilities are impending or neutrality is being enforced, some decentralization will be necessary; the direction which such decentralization will take necessarily depends upon the country with which hostilities are imminent or to whose disadvantage neutrality is being enforced. The decentralization would probably be similar to that planned for the color plans. For example: under the Orange Plan, overseas intercept detachments will continue on their previously assigned missions but under the control of the Department Commander, and will perform such additional missions as he may desire. Traffic will be scrutinized by the cryptanalytical personnel of the department commander; messages which appear important will be forwarded [to] the War Department by mail. (Keys to current enemy cryptographic systems will be furnished department commanders by the Chief Signal Officer). Under the Orange Plan, control of the detachment of the Ninth Corps Area will similarly pass to the Commanding General of the Fourth Army and it will function under him in the same way as do the overseas detachments. Should the Green Plan be put into effect, only the detachments in the Eighth and Ninth Corps Areas will be affected, they passing to the control of the Commanding General, Third Army and the Commanding General, Fourth Army, respectively.

The recommendations made in the document just quoted were, however, not intended for immediate action but only as war plans.

A "Proposed Organization of Signal Intelligence Service," dated in a later hand "June 1939," is in the Battalion files. It provides for a total of four officers, one to be head of the SIS,

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another to be instructor in the School, and two to be students in the School. The enlisted strength is given as follows:<sup>7</sup>

<u>Grade</u>	<u>Provided</u>	<u>Required</u>	<u>Total</u>
Master Sergeants	0	8	8
Technical Sergeants	4	3	7
Staff Sergeants	0	8	8
Sergeants	6	12	18
[Private First Class]	[64] <sup>8</sup>	[25] <sup>9</sup>	[89]
Specialist, First Class	4	13	17
Specialist, Second Class	14	9	23
Specialist, Third Class	20	3	23
Specialist, Fourth Class	18	8	26
Corporals	6	-6	0
Specialist, Fifth Class	2 <sup>10</sup>	-2	0
	<u>74</u>	<u>56</u>	<u>130</u>

Apparently, this table of organization was never adopted, for there is no record of approval of the 56 men who are here listed as required, with the note that they had been "already requested."

### C. Transfer of Headquarters

From the founding of the Second Service Company its headquarters had been at Fort Monmouth, the permanent station of the first Company Commander, Earle F. Cook (then First Lieutenant, now Colonel), but it did not take many months of experience to see that if the new

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7. The figures given on the original chart have been corrected so as to make them consistent in themselves. Note that the totals given for Privates First Class, (in brackets) must be omitted from the additions.
  8. In the original this figure appears erroneously as 20.
  9. In the original this figure appears erroneously as 59.
  10. In the original this figure appears erroneously as 0.

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arrangement was to work well, close cooperation between the Signal Intelligence Service and the Second Signal Service Company would require the headquarters of the two organizations to be at the same place. Accordingly, Colonel Clyde L. Eastman, then Executive Officer to the Chief Signal Officer, recommended to The Adjutant General on 6 September 1939 that the headquarters of the Company be transferred to Washington.<sup>11</sup> The recommendation was approved by The Adjutant General to become effective on 1 November 1939.<sup>12</sup> Since that date the headquarters of the two organizations (and their successors) have always occupied adjacent quarters. Simultaneous with the move, Captain George A. Bicher assumed command of the Company, Lieutenant Cook remaining at Fort Monmouth in charge of the detachment which did not move with Headquarters.

Whether the move was motivated at least in part by the outbreak of the War in Europe is not clear from the record, but in any case, the same month marked, as we have seen in preceding chapters, a movement to expand the work of the Signal Intelligence Service as a whole. Included in the general expansion was an item for the enlargement of the Company by 1 officer and 26 enlisted men, needed to establish

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11. Colonel Clyde L. Eastman to The Adjutant General 6 September 1939, subject: 2d Signal Service Company, CCSigO 320.3 (2d Sig.Serv.Co.).
12. 1st Ind to above, AG 320.2 (9-6-39) M (ret)-C, 24 October 1939. The actual strength on 31 October 1939 (the day before transfer of Headquarters) was 2 officers and 110 men.

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a new intercept station at Fort Hunt, Virginia.<sup>13</sup> The grades for these enlisted men were specified in appendix D of the request, as follows:

1 Master Sergeant	- Trick Chief
1 Technical Sergeant	- Trick Chief
1 Staff Sergeant	- Trick Chief
1 Private 1st Class, Specialist 1st	- Maintenance
6 Privates 1st Class, Specialist 2d	- Radio Operators
6 Privates 1st Class, Specialist 3d	- Radio Operators
6 Privates 1st Class, Specialist 4th	- Radio Operators
4 Privates 1st Class, Specialist 5th	- Radio Operators

This request was approved on 27 September 1939.<sup>14</sup> Thus the Second Signal Service Company was at the end of the first year of its existence authorized to have 127 enlisted men, but it was not up to strength: there were actually only 102 enlisted men in it.

On 9 December 1939 the Company was authorized to have a First Sergeant,<sup>15</sup> and, on 14 December 1939, Sergeant Oscar Wilder, Jr. was appointed First Sergeant by Company Order No. 35.<sup>16</sup>

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13. The Chief Signal Officer to the Assistant Chief of Staff, War Plans Division, thru the Assistant Chief of Staff, G-2, no subject, 14 September 1939, par. 5 b.
  14. The Adjutant General to the Chief Signal Officer, subject: Signal Intelligence Service, 27 September 1939, AG 321.924 (9-14-39) M-WPD, par. 3, not affected by changes to this directive made on 2 November 1939.
  15. The Adjutant General to the Chief Signal Officer, subject: Allotment of Grades and Ratings for Enlisted Men, AGO 221 (12-9-39)E.
  16. Captain Wilder was Adjutant of the Battalion at the close of the War.

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The problem of increasing the strength of the Second Signal Service Company to keep pace with the rapidly expanding needs of the Signal Intelligence Service was always an acute one. Correspondence from the beginning of 1940 to April 1942, when the Company became the Second Signal Service Battalion, shows that two chief concerns were: (1) increasing the authorized strength and the number of high ratings in the Company, and (2) obtaining adequate personnel to bring the Company up to strength and keep it there. Even finding replacements for men who had completed a term in the Army and had left the service; or who had been transferred to other organizations, or who had been found to be unsatisfactory for the work was very difficult. As early as 8 January 1940 letters were sent to the Signal Officers in the corps areas listing the qualifications needed and requesting assistance in locating qualified enlisted men.<sup>17</sup>

A second circular letter was also sent on 11 July 1940 to the Signal Officers of the 1st, 2d, 3d, 4th, 5th, and 9th Corps Areas containing this interesting paragraph:

2. There has been some difficulty in obtaining qualified replacements for this organization and it is desired that you discreetly canvass the Signal Corps enlisted personnel in your

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17. The Chief Signal Officer to the Signal Officer, Ninth Corps Area, subject: Replacements Second Signal Service Company, 8 January 1940, CCSigO 220.33 2d SSCO.

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Corps Area with a view to submitting recommendations for transfer to this organization. In addition to meeting the qualifications in Paragraph 2 of the quoted extract, applicants should be qualified radio operators. In so far as possible, all transferees will be given the same grade and rating they now hold. The rate of promotion in this organization is very rapid. It is believed that this organization offers exceptional possibilities to those who intend to make the Army their career.<sup>18</sup>

In spite of the fact that the Company was not up to authorized strength, the allotment was increased on 1 March 1940, for what specific reasons the record does not state, by two sergeants, fourth grade.<sup>19</sup> On 3 April 1940 Colonel S. S. Akin stressed the fact that it was highly desirable for a trained cryptanalyst to be available in each of the overseas departments as an aid to the Cryptographic Security Officer and as a nucleus about whom a signal intelligence cadre could be built in times of war. The eventual aim would be to have a cryptographic specialist in each corps area as well as department. Consequently, Colonel Akin recommended that when any increase in personnel was authorized, the following additional personnel of the first three grades be allotted to the Second Signal Service Company:

1 Master Sergeant	} Cryptographic Speciality
2 Technical Sergeants	
3 Staff Sergeants	

18. Executive Officer, OCSigO to Signal Officers, subject: Replacement's Second Signal Service Company, OCSigO 220.33-2d Sig. Service Co. (7-11-40). A similar letter was also sent to the Commander of the Detachment at Fort Monmouth on 17 July 1940.

19. The Adjutant General to the Commanding General, Third Corps Area, subject: Grades and Ratings, 1 March 1940, AG 221 (3-1-40)E.

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At the same time Colonel Akin recommended increasing the strength of the Company by 10 men with the following grades and ratings:

- 3 Privates First Class, Specialist 1st
- 3 Privates First Class, Specialist 2d
- 4 Privates First Class, Specialist 3d

The reasons Colonel Akin gave for this increase are worth quoting in full:

This company is now organized with a minimum of personnel for the work to be performed and on the basis that all men are always present for duty. The services of approximately ten per cent of the men in the company are lost due to time lost in change of stations and delays en route (Almost 50% of the service is foreign service). It is necessary to have a certain overhead in order to keep the various detachments at a strength with which they can accomplish their mission.<sup>20</sup>

At the end of the month (30 April 1940) the Company strength was as follows:

- Captain George A. Bicher, Commanding Officer
- 3 Master Sergeants
- 1 First Sergeant (Oscar Wilder, Jr.)
- 8 Staff Sergeants
- 11 Sergeants
- 7 Corporals
- 48 Privates First Class
- 43 Privates
- 121 Total enlisted strength

Four losses were reported on this sheet, so there had been a maximum actual strength of 125 men of the 129 authorized.

A further request for an increase of the allotment was made on 4 June 1940,<sup>21</sup> which asked for a total of 56 enlisted men, as follows:

20. Colonel S. B. Akin to Personnel Division, 8 April 1940.

21. RSN from Colonel S. B. Akin to Personnel Division, 4 June 1940, copy filed in General Files SPSIS 322 (2d S.S.En) 1939-1941, Case No. 1172.

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4 Master Sergeants  
 7 Technical Sergeants  
 9 Staff Sergeants  
 6 Privates First Class, First  
 6 Privates First Class, Second  
 12 Privates First Class, Third  
12 Privates First Class, Fourth  
 56 Total

These 56 men<sup>22</sup> were to be used as follows: 11 each for the Panama and Hawaii detachments for direction-finding duties which had previously been performed by Company personnel at the expense of monitoring. Ten were to be sent to the Philippine detachment to provide for interception of additional circuits. Fourteen were to be trained in cryptography for assignment (one each) to the War Department Message Center and the corps areas and overseas departments. The remaining 10 were to be used so as to offset the loss (estimated to be as high as 10 per cent) caused by the time needed to effect transfers.

By 6 June 1940 the need for the replacement of and additions to the radio operator personnel of the Second Signal Service Company had become so critical that the Signal Intelligence Service put in a request for 10 operators from the class graduating from the Signal Corps School on or about 1 August 1940.<sup>23</sup> The investigation and board proceedings were to be accomplished prior to August so that the men would be immediately available upon their release from the

22. The fact that 56 men are involved here should not be confused with the request of June 1939 which also asked for the same number. The breakdown of the grades is, however, entirely different: the agreement of the totals is purely coincidental.

23. Unsigned R&Y SIS to Personnel, 6 June 1940.

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school.

Records do not show whether the request of 6 June was approved, but by 19 August 1940 another plan was being formulated to obtain personnel from the Signal Corps School, since efforts to obtain qualified personnel from other sources in all corps areas and departments had been unsuccessful. The terms of the request were as follows:

In view of the fact that the Second Signal Service company is twenty per cent under strength and that the directives of this organization from the Chief Signal Officer are increasing in volume, it is requested that the Commandant, the Signal Corps School, be directed to select thirty (30) men for this company from men completing the radio courses at the Signal Corps School. Because of the acute demand for personnel for newly organized Signal Corps unit, it is not expected that this request [will] be met at once, but it is necessary if this organization is to continue its present wide-scale activities that an increment of not less than ten (10) men be provided at the earliest practicable date (and not later than September 15, and five (5) men per month be provided thereafter until the full quota of 30 has been supplied.<sup>24</sup>

How the shortage in personnel affected the Second Signal Service Detachment stationed at Fort Sam Houston, Texas, is set forth in detail by Colonel Goodwin Compton, Signal Officer of the Eighth Corps Area, in a letter dated 22 July 1940, in which he recommended to Colonel Akin that the detachment be increased from 15 to 20 men. Only then could an actual effective strength of 15 men be maintained on duty at all times and the current directive and other

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24. Unsigned R&W from SIS to Personnel, subject: Personnel Second Signal Company, 19 September 1940.

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special directives be handled efficiently. Colonel Compton explained as follows the problem that the detachment faced:

Normally there are two men enroute to and from foreign service at all times. Men assigned this detachment from overseas are usually granted a delay enroute of 90 days, and their replacements from this detachment are usually granted a delay enroute to enable them to care for personal affairs prior to leaving, with added travel time to the point of embarkation. The detachment is therefore without these men from 100 to 120 days. At the end of this period another group of two men is ordered to and from foreign service. Additional local losses are incurred due to personnel absent through sickness, discharge per ETS or by purchase, and on furlough; thus reducing the actual strength of the detachment by another two or three men.<sup>25</sup>

Colonel Akin replied to Colonel Compton on 29 July 1940 that the authorized strength of the Fort Sam Houston detachment had been increased to 17 and that, with further increase in the strength of the Company, the strength of his detachment would be increased accordingly. But he also stressed the point that an increase in authorized strength alone did not solve the problem of putting additional qualified men on duty. He urged that serious effort be made to obtain men by transfer or reenlistment from other organizations in the Eighth Corps Area.<sup>26</sup>

A new plan for procuring enlisted men for the Second Signal

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25. Colonel Goodwin Compton, Signal Officer to Commanding Officer, 2d Signal Service Co., Office of Chief Signal Officer, Washington, D. C., subject: Additional Personnel, 22 July 1940.
26. From Colonel S. B. Akin 29 July 1940 to Colonel Goodwin Compton, Signal Officer, Eighth Corps Area.

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Service Company was put forth on 4 November 1940 in a letter from Brigadier General Dawson Olmstead to the Chief Signal Officer. General Olmstead pointed out that the three principal sources of enlisted men (volunteers from organizations at Fort Monmouth, the Domestic Replacement Pool, and the Overseas Replacement Pool) were virtually closed at this time on account of the expansion of the Signal Corps. To remedy this situation, General Olmstead suggested that:

- a. Replacements for foreign service stations be selected from the Overseas Replacement Pool as far as possible.
- b. Authority be granted to examine men who are students at the Signal Corps School from any Signal Corps organization with a view to their transfer to the 2nd Signal Service Company.
- c. That the grades and ratings in the 2d Signal Service Company be adjusted so that the lowest paid grade shall be private first class, specialist third class.<sup>27</sup>

On 14 November 1940 Colonel Clyde L. Eastman wrote the Commandant of the Signal Corps School that the Chief Signal Officer had concurred in recommendations a and b quoted above.<sup>28</sup> As for the third recommendation, an unsigned RAN to Personnel dated 6 November 1940 states that, effective 2 December 1940, the

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27. Brigadier General Dawson Olmstead to the Chief Signal Officer, Washington, D. C. subject: Procuring Enlisted Men for the 2nd Signal Service Company, 4 November 1940.
  28. Colonel Clyde L. Eastman to the Commandant, Signal Corps School, Fort Monmouth, N. J. OCSigO 320.22 (2nd SS Co).

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authorized grades and ratings of the Second Signal Service Company would be considerably increased, so that the lowest paid grade would then be that of private first class, specialist fourth class.<sup>29</sup>

What action was taken on the request made 4 June 1940 for an increase of the authorized strength is, as has been said, not known: no record of any action has been found in the files, but either the request was approved in part, or the Company was permitted to become over strength, for on 12 November 1940 the strength was 145 enlisted men (85 of them in grades 6 and 7 with specialist ratings).<sup>30</sup> Consistent with this view is the fact that the next recorded increase of authorized strength, made on 21 February 1941, raised the total strength to 150 enlisted men, which represents an increase of five men over the actual strength of the preceding November, or 21 men over the last recorded increase of allotment, assuming that the request for 56 men made in June 1940 had not been favorably received. In any case, on 21 February 1941 the authorized strength of the Company was revised to the following:<sup>31</sup>

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29. Unsigned RMN to Personnel, subject: Replacements Second Signal Service Company, 6 November 1940.
  30. RMN, SIS to Executive Officer, CCSigO through Personnel Division subject: Temporary Grades and Ratings for the Second Signal Service Company, 12 November 1940, signed Colonel S. B. Aldin.
  31. The Adjutant General to the Commanding Officer, Second Signal Service Company, subject: Allotment of grades and ratings, and authorized strength, 21 February 1941, AG 221 (2-18-41) E. The original request for this revision is not available, but its date must have been 18 February 1941.

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1 Master Sergeant  
 1 First Sergeant  
 8 Technical Sergeants  
 18 Staff Sergeants  
 25 Sergeants  
 18 Corporals  
 73 Privates First Class  
 6 Privates  
150

In the following April Colonel S. B. Akin, then Officer in Charge of the Signal Intelligence Service, submitted to the Officer in Charge, Personnel Division, Office of the Chief Signal Officer, a memorandum in which he proposed changes in the Table of Organization of the Company.<sup>32</sup> While the recommendations in this memorandum were never approved, the text of the document is of the greatest interest because it emphasizes the difficulties faced by the Company at that time in getting qualified personnel to work for low ratings.

1. Enclosed herewith is a proposed table of organization of the Second Signal Service Company showing distribution of grades and ratings for enlisted personnel in compliance with recent verbal agreement. This table envisions the promotion into the first three grades of approximately fifty percent of the men of this organization having over one year's service as of January 1, 1941, as outlined in letter OCSigO dated February 25, 1941 but does not contemplate the transfer of men thus or previously promoted out of the organization for the reasons outlined below.

2. The enclosed table is based upon the organization of the company as it now functions with seven operating detachments in the field and a headquarters detachment in Washington. This set up is of course subject to change; and increase in the number of operating detachments would

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32. Colonel S. B. Akin to Officer in Charge, Personnel Division, OCSigO, subject: Table of Organization, 2nd Signal Service Company, 16 April 1941, copy filed in Battalion archives.

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further justify the grades and ratings proposed. A brief explanation of some of the details in the proposed table follows:

a. Warrant Officers, Signal Corps officer requirements as set up at present do not provide for officers in charge of the detachments Second Signal Service Company. While nominally under the supervision of Corps Area and Department Signal Officers the pressure of other duties prevents such officers or their assistants from devoting the time necessary for the careful supervision of the vital work carried on by the Second Signal Service Company. It is believed this deficiency could be eliminated by providing warrant officers within the organization who would form a permanent crew of station supervisors. This is in line with the policy of the Navy in parallel activities. Until such time as warrant officers can be authorized, master sergeants can be employed in this capacity.

b. Headquarters detachment. The Headquarters Detachment here in Washington is charged not only with company administration but must also supply maintenance personnel for cryptographic equipment. The Chief Signal Officer has ruled that the Signal Intelligence Service will be responsible for storage, issue, and maintenance of confidential and secret cryptographic devices, and the furnishing of enlisted personnel for this activity is a proper responsibility of the Second Signal Service Company because of the nature of the work involving as it does a most careful selection of personnel.

c. Operating detachments. The duties of personnel assigned the operating detachments are comparable to that of operators on the War Department radio net. These operators are for the most part civil service employees at \$1800 per annum. The loyalty and integrity of Second Signal Service Company operators must be even higher than that of the civilian operators. Obviously some means must be found of obtaining higher remuneration for such enlisted men than in the average company of Signal Corps troops. Failure to provide such increased compensation is unjust not only in respect to the duties performed by these operators, but also in respect to their opportunities of obtaining promotion were they assigned to some other Signal Corps unit. It is a well-known fact that any enlisted man possessing the qualifications necessary for transfer to the Second Signal Company is eligible for consideration for promotion in the first three grades

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under the provisions of letter OCSigO, February 25, 1941 were he assigned to another organization. To permit transfers out of the Second Signal Service Company in order to provide equal opportunity would seriously impair the work being done, and to prevent such transfer without adequate promotion within the organization is a severe blow to morale which is equally undesirable.

3. The proposed table of organization has been determined after thorough and careful consideration. While at first glance the number of high grades and ratings may appear excessive, it is believed that any scaling down below the proposed allotment as a minimum would tend to increase the difficulty of securing and holding the high type of personnel necessary to the proper functioning of this unit. It is accordingly recommended that every effort be made to obtain approval for the grades and ratings proposed.

The proposed table of organization referred to did not call for a larger allotment of persons than the then current allotment, that is, 150 men, but it did propose higher grades and ratings, which expressed in a slightly condensed form, were as follows:

Warrant Officers or Master Sergeants

One in charge of each intercept station	7
Technical advisor to OIC, SIS	1
Instructor, Signal Intelligence School	1

Master Sergeants

Chief Radio Operators	7
Radio Receiving Engineers	7
Instructors, Signal Intelligence School	2
Sergeant Major	1

Technical Sergeants

Assistant Chief Radio Operator	21
Radio Electricians	7

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Radio Operators 28

SergeantsRadio Operators 26  
Administration and Supply 7Privates First Class

Radio Operators 28

PrivatesRadio Operators 5  
Total 150Specialists Ratings Third Class 21  
Specialists Ratings Fourth Class 12  
Total 33

Thus, all 33 men in Grades 6 and 7 would be provided with specialists ratings. The effort to provide for warrant officers was, however, unsuccessful; nor was it possible to provide master sergeants for these positions. In the table of organization as proposed there were 26 positions calling for master sergeants as the minimum grade, yet, as will shortly be seen, a year later the authorized allotment of master sergeants for the Battalion was still only one out of 709 men.

On 1 July 1940 Captain Harold G. Hayes, then Assistant Officer in Charge of the Signal Intelligence Service, was directed to assume additional duties with the Second Signal Service Company, and Captain George A. Bicher was relieved as Commanding Officer.<sup>33</sup> Captain Hayes

<sup>33</sup>. The Adjutant General to Captain Harold G. Hayes, subject: Additional Duty, 19 June, AG Hayes, Harold G. (6-5-40)O.

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himself was relieved of the post on 1 September 1940, by Captain (now Colonel) Eric H. F. Svensson who was in turn succeeded on 28 June 1941 by Captain (now Colonel) Earle F. Cook and on 19 November 1941 by Captain (now Colonel) Robert E. Schukraft. It was the latter who was in com and on the day of the Pearl Harbor attack. He was then directly in charge of a detachment in Washington consisting of 28 men and was also Commanding Officer of the Company as a whole.<sup>34</sup>

During Captain Cook's term as Company Com. under orders were sent to the detachments directing that monthly reports be made to Headquarters with reports on changes of duty status to be sent to Washington by radio.<sup>35</sup> This procedure was followed throughout the War.

On 27 October 1941 Captain Cook set forth in a letter to the Chief Signal Officer the conclusions reached after a study of the personnel problems of the Second Signal Service Company and made recommendations for changes in the table of organization of the Company. Captain Cook pointed out that a large number of men in

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34. Ever since the Company had been activated, on 1 January 1939, the relations between it and the parent organization (the Signal Intelligence Service) had been close. One enlisted man, Sergeant Stanley A. Kretlow, (now a Captain) had been stationed in Washington from the beginning.

35. Captain Earle F. Cook to all detachments, subject: Second Signal Service Company, 22 July 1944 (Battalion files).

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the Company were thoroughly qualified for promotion to a staff grade and that these men would undoubtedly hold such a grade if they were on duty with other Signal Corps organizations where they could be judged according to experience, ability, and length of service in competition with other men of the higher grade. This unfair situation was causing a loss of valuable trained personnel and was thus not only aggravating an already acute shortage but was even undermining the morale of the organization:

The morale factor in such a situation requires little comment. Any organization made up of men chosen from those with only the highest of qualifications, who are required, in turn, to perform delicate work upon secret matter with a degree of efficiency could expect to be rewarded with at least the same level of promotion accorded other enlisted men. If, on the other hand, they must remain in such an organization with no prospect of advancement and watch other men on all sides progress rapidly, it can only destroy morale. The situation creates shortages in personnel which increase the burden on those who remain. They lose their normal allowance of leave, and the detachments suffer tremendous hardships in the event of sickness. Few men are willing to enter such an organization.<sup>36</sup>

The table of organization which Captain Cook proposed to remedy this situation was exactly the same one (quoted at length above) which Colonel Akin had requested for the Company on 16 April 1941.

On 25 November 1941, in compliance with an oral request, the following recommendation for a new table of organization for the Second Signal Service Company, upon the expansion of the Army by 1,700,000, was submitted to the Officer in Charge, Military

36. Captain Earle F. Cook to the Chief Signal Officer thru Officer in Charge, Signal Intelligence Service, subject: Table of Organization, 2d Signal Service Company, 27 October 1941.

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## Personnel Division:

Master Sergeants	24
Technical Sergeants	46
First Sergeants	1
Staff Sergeants	114
Privates First Class	159
Privates	<u>114</u>
Total	458

Ratings	
Specialist, First Class	61
Specialist, Second Class	58
Specialist, Third Class	16
Specialist, Fourth Class	24
Specialist, Fifth Class	<u>54</u>
Total	213

The justification given at the time for grades and ratings which would place the Second Signal Service Company far above any other Signal organization in strength is of interest:

It is desired to emphasize the fact that the very vital work now being carried on by this organization is today being severely handicapped by the desire of enlisted men to separate themselves from the organization upon expiration of their term of service since, with the qualifications they possess, they are able to secure appointment in the first three classes almost immediately in any other organization needing radio personnel. Re-enlistments within the organization are becoming an exception rather than a rule and some step should be taken to supply the necessary vacancies in the higher grades in order to retain within the organization the qualified type of man which the work demands.<sup>37</sup>

The difficult situation in regard to shortage of personnel that the Second Signal Service Company found itself in just before

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37. Unsigned copy of M&W to the GIC, Military Personnel Division, 25 November 1941.

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the outbreak of the World War II is clearly seen in the response met by General MacArthur's effort to increase the strength of the Philippine detachment on 24 November 1941. On that date General MacArthur sent the following radiogram from Manila to AGWAR:

Philippine detachment of Second Signal Service Company has an authorized strength of twenty-four enlisted men. Present strength is sixteen, with fifteen available for duty. Of these, four will be returned to the United States by February. In order to bring this detachment to maximum output and to provide personnel for operations of direction finding equipment shortly to be installed, it is recommended that the strength be increased to thirty-two at the earliest possible date. New men should be qualified to begin work upon arrival.<sup>38</sup>

In reference to this request, on 6 December 1941 (a date significant in history) Lieutenant Colonel R. W. Minckler recommended the approval of the request, but with the following qualifications:

Great difficulty has been experienced in obtaining replacements for the Second Signal Service Company pursuant to requests that have been submitted. The company is today thirty-three men under strength with little immediate hope of filling the vacancies through normal personnel procurement methods since a very high type of radio operator is required. To attempt to provide personnel for the Philippines by arbitrarily taking them from other detachments should not even be considered, for such a policy would wreck the other intercept stations, which are also operating under strength. Attention is invited to the fact that all detachments of the Second Signal Service Company are today on a war-time operating basis. They are equally important to the War Department and nothing should be permitted to interfere with carrying out their current highly important directives.<sup>39</sup>

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38. Manila to AGWAR, No. 962 November 24th. AG 320.2 (11-24-41)MC.

39. Lieutenant Colonel R. W. Minckler, Memorandum for the Acting Chief Signal Officer through CIC, Operations Branch, subject: Replacements Second Signal Service Company, 6 December 1941.

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Colonel Minckler concluded with a recommendation that a directive be sent by The Adjutant General to the Commanding Generals of all corps areas requiring orders to be issued to transfer in present grade radio operators from their several areas to bring the various detachments of the Second Signal Battalion up to strength.

Two progress reports to the Commanding General, Third Corps Area, show what the strength of the Company was just before and immediately after the outbreak of the War:

21 November 8 December 1941

Present in Third Corps Area	28	28
Temporarily absent in Second Corps Area	72	69
" " Eighth Corps Area	12	11
" " Ninth Corps Area	9	9
" " Hawaiian Department	20	20
" " Panama Department	16	16
" " Philippine Department	16	16
" " at work for Assistant Chief of Staff, G-2	<u>6</u>	<u>6</u>
Total	179	175

The phrase "temporarily absent" in these two progress reports is an allusion to the fact that Headquarters, Second Signal Service Company, were in the Third Corps Area, though some of the detachments were technically "absent" from that command. The morning report for 7 December 1941 (now in the Battalion files) shows that on that day there were 28 enlisted men in Washington and 149 elsewhere, a total of 177 in all. Company strength would normally fluctuate slightly from day to day; the fact that strength had decreased between 21 November and 8 December by four does not reflect a policy of

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The first wartime expansion of the Second Signal Service Company began with a request for approval of a proposed table of organization which was sent to the Military Personnel Division on 14 February 1942.<sup>41</sup> The text of this important document is as follows:

1. The Second Signal Service Company was organized to perform radio intercept missions for the War Department. The number of intercept stations has been increased and more are contemplated. In addition to intercept duties, it has been found desirable that this organization should encompass all of the Signal Intelligence activities of the War Department for which enlisted personnel must be furnished. At the present time the students and enlisted instructors in the Cryptographic Division, Signal Corps School, as well as a detachment on duty in the Signal Intelligence Service, Office of the Chief Signal Officer, are assigned to the

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40. There exists in Battalion files a carbon copy of an unsigned memorandum typed on stationery of Headquarters, Second Signal Service Company, dated 5 December 1941, which indicates the authorized strength as 150, the actual strength 117, and under strength 33. The Memorandum from Lieutenant Colonel R. W. Minckler to the Acting Chief Signal Officer mentioned above (footnote 39) also stated that the Company was 93 men under strength on 6 December 1941. If the unsigned memorandum was the work of some one who knew correct under strength but had no information about some increase, here unrecorded, in the authorized strength of the Company, the four signed documents remain in accord.
41. Lieutenant Colonel R. W. Minckler to Officer in Charge, Military Personnel Division, thru Officer in Charge, Army Communications Branch, subject: Reorganization of the Second Signal Service Company, 14 February 1942, OCSigO 311.5-General (2-14-42).

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Second Signal Service Company as surplus personnel for whom no grades or ratings are available. The organization has long ago exceeded normal company size and it is, therefore, recommended that in accordance with the enclosed Table of Organization, the company be reorganized as the Second Signal Service Battalion.

2. A brief explanation of the proposed organization follows:

a. Headquarters Detachment (Column 3)

The Battalion Commander and the Second in Command are assigned to additional duty in the Traffic Section of the War Department, S.I.S. The operating directives to the various intercept detachments should preferably be coordinated by the organization commander, who should have, at the same time, an intimate knowledge of the types of traffic desired and the details of its reception. The third officer in the Headquarters Detachment is assigned to administrative duties solely. Enlisted administrative personnel consist of one Sergeant Major, one Supply Sergeant, and two clerks.

b. School Detachment (Column 4)

The School detachment comprises both students and enlisted instructors. The commissioned instructors are members of the staff and faculty, Signal Corps School. It is believed desirable to assign to the Second Signal Service Battalion enlisted students in cryptographic training, since it provides better administrative control of their instruction and later assignment.

c. The War Department S.I.S. Detachment (Column 5) represents the personnel considered necessary to adequately perform the Signal Intelligence functions of the War Department during war time. A successful prosecution of Signal Intelligence activities requires the concentrated efforts of a large group of highly trained and skilled personnel.

d. G.H.Q., S.I.S. Detachment (Column 6) is not an organic part of the Second Signal Service Battalion. It is attached to the Battalion during such time as the G.H.Q. remains in the vicinity of Washington, D. C. Upon departure of G.H.Q. this detachment reverts to Headquarters, Signal Service, G.H.Q.

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e. Fifteen Intercept Detachments (Column 7) have been set up as needed to adequately provide the radio intercept coverage desired by the War Department. Each detachment consists of one officer and twenty-five enlisted men. Experience has shown that a detachment of this size is required to man an intercept station and furnish twenty-four hour service. At the present time eight intercept stations are in operation. Most of them are inadequately manned to perform the intercept service directed. They vary in size from about ten operators, the smaller stations being made so necessarily because of the limited authorized strength of the Second Signal Service Company.

f. Transportation to consist of one truck, pickup for Headquarters Detachment and for each of the Intercept Detachments has also been provided. This is considered necessary to assure the prompt handling of the intercepted traffic in dispatching it from intercept stations to the War Department or a transmitting agency.

g. The grades and ratings asked for are proportionately large for a battalion strength organization, as is the present allotment of grades and ratings for company strength. The high degree of training and the special qualifications necessary for the various phases of Signal Intelligence duty, upon which this personnel will be engaged, make the setting up of adequate grades and ratings a necessity. Enlisted men who are performing the specialized duties of this organization forfeit their chance for rapid advancement, which would undoubtedly come their way if they were assigned to field organizations. It is therefore unjust to the individual and destructive to morale, in fact, to penalize him because of his assignment to this service organization.

h. Early consideration of this proposal is requested, in view of the conditions existing as mentioned in Paragraph i above. If the Second Signal Service Company is not to be enlarged to absorb in proper grade the personnel assigned to the Cryptographic School and to the War Department, S.I.S., other arrangements should be made to enable the promotion of the increasing number of men in seventh grade who are being so assigned.

The proposed table of organization attached to the document just quoted calls for the following enlisted men:

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Master Sergeant	77
Technical Sergeant	85
Staff Sergeant	115
Sergeant	92
Corporal	23
Private, First Class	<u>364</u> <sup>42</sup>
Total	756

Although paragraph 4 of the request asked for early consideration, final approval had not reached the Company on 11 March 1942, when Colonel Minckler informed the Chief, Army Communications Branch (Brigadier General Frank E. Stoner), that it was understood that the recommendations and table of organization were now "in the hands of G-1 according to the Military Personnel Division."<sup>43</sup>

What had happened is revealed by the following paragraph taken from a Routing and Work Sheet dated 23 March 1942, signed R. R. Kilgore, Military Personnel Division:<sup>44</sup>

The recommendation for the reorganization of the 2nd Signal Service Company was sent to The Adjutant General by the Military Personnel Division on March 3, 1942. On March 21, 1942, the status of this recommendation was as follows:

The above recommendation was received in the Adjutant General's Office on March 4, 1942, and through error was stamped for file by a clerk and placed in the dead file. This correspondence was

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42. Memorandum for General Stoner from Lieutenant Colonel R. W. Minckler, 11 March 1942, OCSigO 311.5-General (3-11-42), par. 1, confirms this total.
43. Memorandum for General Stoner from Lieutenant Colonel R. W. Minckler, 11 March 1942, OCSigO 311.5-General (3-11-42) par. 1.
44. General Files SPSIS 322 (2nd Sig. Serv. Bn.) March-April 1942, Case No. 1160.

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located on March 21, 1942, by an officer from the Military Personnel Division, who gave it to Colonel Breckenridge, Miscellaneous Section, The Adjutant General's Office, who started immediate action to get it through The Adjutant General's Office. Every effort will be made to push this thru the Staff with the minimum of delay, and Military Personnel will keep you advised of the status.

About three weeks later (14 April 1942) the necessary approval was received from The Adjutant General's Office for the change of name to Second Signal Service Battalion and increase of the allotted enlisted strength to the following,<sup>45</sup>

1	Master Sergeant	26
2	First Sergeant	1
	Technical Sergeant	49
3	Staff Sergeant	0
	Technician	74
4	Sergeant	1
	Technician	141
5	Corporal	16
	Technician	188
6	Private First Class	106
7	Private	107
	Total	709

As the last previous allotment had provided for a total of only 150 enlisted men in all grades, the increase was 559 enlisted men. Though this new allotment represented only about 20 per cent of the maximum strength the Battalion was destined to reach, the increase of 14 April 1942 was at that time phenomenal.

On 27 July 1942 orders were issued by The Adjutant General to the Commanding General, Third Service Command, for the transfer of

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45. The Adjutant General to the Chief Signal Officer, subject: Reorganization of the 2nd Signal Service Company, 14 April 1942, AG 320.2 (3-3-42).

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4 officers and 80 enlisted men to Vint Hill Farms Station, the site of the new Eastern Primary Monitoring Station.<sup>46</sup>

Large as the last increase of allotted strength had been, on 14 September 1942 Colonel Frank W. Bullock, who had succeeded Lieutenant Colonel Rex W. Minckler as Officer in Charge, Signal Intelligence Service, requested another increase.<sup>47</sup> He requested that the allotment of 709 enlisted men be increased to 2789, with grades as follows:

1	Master Sergeant	133
2	First Sergeant	0
	Technical Sergeant	238
3	Staff Sergeant	12
	Technician	334
4	Sergeant	26
	Technician	397
5	Corporal	53
	Technician	396
6	Private, First Class	586
7	Private	<u>614</u>
	Total	2789
	Less Present	<u>709</u>
	Net Increase	<u>2080</u>

At the same time an increase in officer allotment for the Battalion was requested:

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46. The Adjutant General to the Commanding General, Third Service Command, subject: Orders, 27 July 1942, AG 320.2 (7-17-42) MB-E-M.
47. Memorandum for Officer in Charge, Military Personnel Division, through Director, Army Communications Service, subject: Second Signal Service Battalion, 14 September 1942, SPSIS 311.5-General (9-14-42).

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Colonel	0	1
Lieutenant Colonel	0	3
Major	1	5
Captain	1	13
First Lieutenant	7	24
Second Lieutenant	12	31
Warrant Officers	0	12 (Communications)
		20 (Cryptographic)
		4 (Supply)

Since even the present enlisted strength of the Battalion was large for that type of organization, it was proposed that the organization be redesignated the Second Signal Service Command. This suggestion was not favorably considered. It was pointed out<sup>48</sup> that confusion would result with the use of the words "service command" which had recently been adopted to replace the older designation "corps area".<sup>49</sup> To this Colonel Bullock replied<sup>50</sup> as follows:

1. The expression 'overhead personnel' is not accurately descriptive of the requirement on which the proposed organization is based. The organization while not tactical in the sense that it is mobile, is charged with one of the most important combatant functions undertaken by any troop unit.

2. The term 'command' is considered preferable to 'regiment' or similar designation because the unit is not

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48. By Colonel H. L. P. King, Chief, Military Personnel Division, action 2 to R&M from Brigadier General Frank E. Stoner to Military Personnel Division, forwarding Colonel Bullock's suggestion. SPSIS General Files 322 (Second Sig Serv Bn September-October 1942).

49. Other parts of the Army did not avoid this confusion: e. g. the "Air Forces Technical Service Command."

50. Action 5 (22 September 1942) to the document cited in footnote 48.

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sub-divided into standard type battalions or companies, but is rather completely fluid within its organic structure. Each sub-division is essentially a 'task' force designed to discharge a particular mission.

No further changes were made, however, in the name of the Battalion.

Nevertheless, the main request, that for an increase in allotted enlisted strength, was forwarded on 24 September 1942 with a favorable recommendation to the Military Personnel Division, Services of Supply.<sup>51</sup> Complete approval to the request as originally made was, however, not immediately given. The Adjutant General, on 30 October 1942, increased the allotted strength by exactly half the requested number but directed that on 1 January 1943, and again on 1 April 1943, the Battalion might again request an increase equal to 25 per cent of the original figure.<sup>52</sup> In this way a plan was made to provide ultimately all the enlisted men that were asked for but over a period of about eight months. For the immediate future the allotment was to be as follows:<sup>53</sup>

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51. Chief, Military Personnel Division, OCSigO, to Chief, Military Personnel Division, Services of Supply, 24 September 1942, subject: Allotment of Grades and Authorized Strength to the Signal Corps, Services of Supply, for the Second Signal Service Battalion, SPSPMP 320.22 (gen).
52. The Adjutant General to the Chief Signal Officer, 1st Ind. to document cited in note 51, 30 October 1942, AG 221 (9-24-42) PE-A-SPGA.
53. Note that the one first sergeant previously allotted was removed, so the total of new positions approved is 1041, one more than exactly half of what had been asked.

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	<u>Additional</u>	<u>Revised</u>
1 Master Sergeant	53	79
2 Technical Sergeant	95	144
3 Staff Sergeant	6	6
Technician	130	204
4 Sergeant	13	14
Technician	128	269
5 Corporal	19	35
Technician	104	292
6 Private, First Class	240	346
7 Private	253	360
Total	<u>1041</u>	<u>1749</u>
Less one First Sergeant	<u>1</u>	
Net Increase	<u>1040</u>	

Maximum use of "limited service" personnel was directed. The possibility of using enlisted women was to be studied, and when the next request was made, it was to show exactly how all of the 1749 enlisted men were being currently employed.

Some idea of the difficulties encountered in filling the allotted strength may be derived from the fact that, of 521 men received by the Battalion at Vint Hill Farms Station from the Fifth Service Command, as many as 28 were found to be illiterates and had to be transferred elsewhere, since it had been intended to use these men for highly specialized work.<sup>54</sup>

In compliance with the directive of The Adjutant General, dated 30 October 1942, a request for 520 additional enlisted men

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54. R&W from Colonel R. W. Minckler, Commanding Officer, Vint Hill Farms Station to Commanding Officer, Arlington Hall Station, 11 December 1942, SP81S 922, 2d Sig Serv Bn, Nov-Dec 42, Case No. 1162. This document gives the names and serial numbers of the illiterates but does not specify the precise meaning of the term "illiterate" as used therein.

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was made early in January 1943 and was approved by The Adjutant General on 14 January 1943. Grades were distributed as follows:

	<u>Additional</u>	<u>Revised</u>
1 Master Sergeant	27	106
2 Technical Sergeant	47	191
3 Staff Sergeant	9	9
Technician	65	269
4 Sergeant	6	20
Technician	64	333
5 Corporal	9	44
Technician	52	344
6 Private First Class	120	466
7 Private	127	487
Total	<u>520</u>	<u>2269</u>

Battalion strength on 31 December 1942 was as follows:

Headquarters, Arlington Hall Station	501
Detachment, Vint Hill Farms Station	808
Detachment, Two Rock Ranch Station	154
Detachment, Fort Sam Houston	20
Detachment, Corozal, Canal Zone	22
Detachment, Fort Shafter, T. H.	22
Detachment, Fairbanks, Alaska	13
Detachment, Bellmore, Long Island, N. Y.	5
Assistant Chief of Staff, G-2	7
Task Force "X"	2
Missing in the Philippine Islands	19
Total	<u>1573</u>

Though originally The Adjutant General had directed the Battalion to prepare a similar request for 520 additional enlisted men about 1 April 1943, the request was made at an earlier date<sup>55</sup> and The Adjutant General approved the increase on 24 March 1943.<sup>56</sup>

55. 12 March 1943.

56. The Adjutant General to the Chief Signal Officer, subject: Allotment of Grades and Authorized Strength, 24 March 1943, AG 221 (3-12-43)P3-A-SPGA.

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This new allotment was distributed between the seven grades exactly as had been that of 14 January 1943, so that the allotment now stood as follows:

1 Master Sergeant	133
2 Technical Sergeant	238
3 Staff Sergeant	12
Technician	334
4 Sergeant	26
Technician	397
5 Corporal	53
Technician	396
6 Private First Class	586
7 Private	<u>614</u>
Total	2789

From the activation of the Second Signal Service Company on 1 January 1939 that organization had had a company commander who was, though technically independent of the Signal Intelligence Service, actually a part of the staff of that service; but on 19 November 1942 Colonel Frank W. Bullock, who had been Officer in Charge of the Signal Intelligence Service since 18 April 1942, assumed command of the Battalion as well. In this way control of the Battalion was unified with that of the Agency, which at the moment was known as the Signal Security Service. At the time Colonel Bullock assumed command of the Battalion, a new post was created, that of Commander of Troops, Arlington Hall Station. The first incumbent was Major (afterwards Lieutenant Colonel) Harry J. Lewis. The duties of this officer were in essence a delegation of authority by the Commanding Officer Second Signal Service Battalion. The following officers have served in this capacity in succession: Lieutenant Colonels Harry J. Lewis, Joseph W. Johnston,

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James E. Black, and James H. Frier, Jr.

Mention should be made of the removal of Battalion Headquarters from the Munitions Building, Washington, D. C. to Arlington Hall Station, a move which took place on 7 July 1942. Colonel Bullock was himself relieved on 1 February 1943, of his responsibilities as Commanding Officer, Signal Security Service, Second Signal Service Battalion, and Arlington Hall Station. He was succeeded by Colonel (now Brigadier General) W. Preston Corderman.

On 11 February 1943 a report was submitted, as directed by higher authority, on Officer Requirements through 30 September 1943, for the Signal Security Service and Second Signal Service Battalion.<sup>57</sup>

	<u>Col</u>	<u>Lt Col</u>	<u>Major</u>	<u>Capt</u>	<u>1st Lt</u>	<u>2nd Lt</u>	<u>Total</u>
<u>A. Present Allotment</u>							
Signal Security Service	3	9	40	73	109	201	335
Second Signal Service	1	2	4	10	21	26	64
<u>B. Current Strength</u>							
Signal Security Service	2	5	6	35	90	148	286
Second Signal Service	0	1	2	5	18	29	55
<u>C. Understrength</u>							
Signal Security Service	1	4	34	38	19	-47	49
Second Signal Service	1	1	2	5	3	-3	9
<u>D. Estimated Requirements</u>							
Signal Security Service	4	8	7	2	30	83	121
Second Signal Service	0	1	1	3	3	5	13
<u>E. Estimated Strength</u>							
<u>30 September 1943</u>							
Signal Security Service	7	17	33	75	139	184	456
Second Signal Service	1	3	5	13	24	31	77

57. Colonel W. Preston Corderman to Chief, Personnel Branch, OCSigO, subject as given, 11 February 1943, SPSIS 311.5-General (2-11-43).

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Both the Signal Security Service and the Second Signal Service Battalion were stated in this report to be under strength owing to the lack of qualified personnel to fill the vacancies. In addition, 225 officers were reported to be currently in the Signal Corps Replacement Pool, later designated as the Advanced Radio Communications School.

On 17 April 1943 the allotment of officers for the Battalion was increased by one lieutenant colonel, one major, three captains, three first lieutenants, and five second lieutenants (all Signal Corps vacancies),<sup>58</sup> making the revised officer allotment as follows:

Colonel	1
Lieutenant Colonel	3
Major	5
Captain <sup>59</sup>	14
First Lieutenant	24
Second Lieutenant	31
Total	78

F. Morale Problems

The problem of morale in connection with the detachment at Arlington Hall Station was rendered particularly acute because many of the enlisted men had assignments exactly like those of commissioned officers and civilian employees (in some cases field officers and highly-paid

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58. Colonel William D. Hamlin, Executive Officer, OCSigO, to Commanding Officer, Second Signal Service Battalion, subject: Allotment of Officer Position to Second Signal Service Battalion, SPSMP 320.21 (Gen.).

59. One of the captains allotted was a chaplain, not a Signal Corp's officer.

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civilians at that) and were doing brilliant work in these capacities. There was, in fact, so it seemed, no correlation between the rank a worker held and his accomplishments. Naturally, many enlisted men felt that they were being treated unfairly. Efforts were made to solve this problem but without complete success. One solution was, of course, to send outstanding men to Officer Candidate School, but the quota was small. In May 1943, for example, the quota for the Second Signal Service Battalion was only six men to a class, yet there was at that time a backlog of 44 applicants.<sup>60</sup> For this reason, it was recommended that the quota for the Battalion in the next two classes be set at 25 men. But no matter how high the quota might be, there were reasons why this expedient could not be used in many cases. Some of the men did not possess the qualifications needed for Signal Corps junior officers in the field but were, on the other hand, possessed of competences which made them particularly useful to the Signal Security Agency. In many instances an enlisted man was performing services of so valuable a nature that he simply could not be spared for 90 days to take the OCS course. Yet the granting of direct commissions to enlisted men was difficult, if not impossible, and except on one occasion, shortly to be mentioned, no enlisted men at Arlington Hall Station were ever given direct commissions.<sup>61</sup>

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60. Memorandum for Colonel W. Preston Corderman to Major General James A. Code, Jr., subject: Corporal Schuyler Hollingsworth, 11 May 1943, SPSIS 322 2d Sig Serv Bn, May-June 1943, Case No. 1165.

61. In the early days of the War a few men of the Second Signal Service Company had been directly commissioned.

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It happened, however, that in the Language Branch there were a large number of enlisted men engaged in the translation of Japanese messages. Some of these men had been originally recruited, while studying Japanese, by officers not connected with this Agency, who, it was alleged, had promised them that if they would enlist and then pursue a course of study in the Japanese language, they would be given direct commissions upon the completion of the course. Such a promise had not been authorized by this Agency, but when the matter was brought to the attention of higher authority by the enlisted men themselves, approval was received by this Agency for the granting of a number of direct commissions to fulfill the promises made. A total of 58 direct commissions as Second Lieutenant were thus given to enlisted men of the Language Branch, 43 of them in January 1944 and 15 in the following May. As could well be imagined, the morale problem of these 58 lieutenants was solved, but that of others not so favorably situated was intensified. There were in other branches, particularly in the two cryptanalytic branches and the Traffic Analysis and Control Branch, enlisted men whose accomplishments were equal, if not superior, to those of the best men in the Language Branch, and their work was needed just as critically. But no further direct commissions could be obtained.

In June 1943 it became necessary to make certain changes in allotment of grades owing to a War Department policy that all students at an advanced special service school, such as was being operated at

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Vint Hill Farms Station, were to be promoted to technician, fifth grade. It was requested that<sup>62</sup> 144 technicians fourth grade and 592 technicians fifth grade, be added and 354 privates first class and 382 privates be deducted from the authorized allotment. This had the effect of permitting the promotion of 736 men in the sixth and seventh grades to be technicians, fourth and technicians, fifth grade. The resultant allotment would then be:

1	Master Sergeants	133
2	Technical Sergeants	238
3	Staff Sergeants	12
	Technicians	334
4	Sergeants	26
	Technicians	541
5	Corporals	53
	Technicians	988
6	Privates First Class	232
7	Privates	232
	Total	2789

Note that the total number of enlisted positions allotted was in no way affected by this change. Actual Battalion strength at this time (30 June 1943) was 2640 enlisted men.

The problem of finding sufficient enlisted men of the proper qualifications for these positions was, however, still to be solved. In June 1943 the schools at Vint Hill Farms Station were not operating to capacity owing to the difficulty of finding suitable material.

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62. ~~MEMO~~ from Colonel W. Preston Corderman to Military Personnel Branch, OCSigO, 12 June 1943, SPSIS 322 2d Sig Serv Bn May-June 1943, Case No. 1165.

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Since six months were required to train personnel adequately, there was a need for a speeding up of the process, specifically by raising the priority which the Battalion enjoyed. The following was the status of available trainees on 1 July 1943:<sup>63</sup>

	<u>Station</u>	<u>Actual</u>	<u>Needed</u>
Vint Hill Farms	1	89	344
Two Rock Ranch	2	106	283
Fort Sam Houston	3	24	30
Asmara	4	6	150 <sup>64</sup>
Fort Shafter	5	27	110
Fairbanks	7	11	30
New Delhi	8	21 <sup>65</sup>	30

In addition, 100 men each would be needed for new stations in the European Theater and the Southwest Pacific Area. At this time the Second Signal Service Battalion enjoyed a priority of "3B", which was a high priority but permitted assignment only of reception center personnel, whereas a "130" priority, which was proposed, would permit the Battalion to get replacement center personnel also. An arrangement had been made with the Military Personnel Division to take reception center personnel through a "168" priority, which was the lowest for personnel of this category.<sup>66</sup> Two requisitions dated 13 May

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63. Memorandum for Lieutenant Colonel Slack from Lieutenant Colonel H. Med. Brown, no subject, 1 July 1943, SPSIE-300-6 (7-1-43).
64. Of these 150, 36 were under orders to depart for Asmara, the initial complement for which was estimated to be 50, but the remainder were yet to be supplied.
65. All of the 21 were still enroute to India.
66. Memorandum from the Adjutant, Second Signal Service Battalion to Commanding Officer of Troops, 2 July 1943, SPSIS 322 2d Sig Serv Bn July-August 1943.

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1943 and 18 June 1943 had not been filled by The Adjutant General's Office on account of the low priority. Even a priority of 15 would permit The Adjutant General's Office to fill these requisitions. The Army Communications Service, of which the Battalion was then a part, had a priority of "13C". It was therefore recommended that a request be forwarded for "13C" priority. The request was forwarded to the Military Personnel Division,<sup>67</sup> and forwarded by that division to the Mobilization Division, Army Service Forces.<sup>68</sup>

G. War Records of Prewar Company Members

Of the prewar Company members a total of nine are known to have been promoted to the rank of commissioned officer or warrant officer in the field. These were as follows:

Master Sergeant Charles G. Wainer

Promoted to Warrant Officer, Junior Grade, 15 May 1942.  
Promoted to Second Lieutenant, 19 May 1942.  
Afterwards promoted at dates to First Lieutenant and Captain (14 Sep 43).

Master Sergeant Charles R. McKenzie

Promoted to Warrant Officer, Junior Grade, 15 May 1942.  
Promoted to Chief Warrant Officer, 31 December 1944.

Master Sergeant Charles Grant

Promoted to First Lieutenant, 10 December 1942.  
Promoted to Captain, 14 September 1943.  
Promoted to Major, 16 May 1946.

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67. R&W from Lieutenant Colonel James E. Slack to Military Personnel Division, 3 July 1943, ibid.
68. Director, Operations Division, OCSigO, to Mobilization Division, ASF, 13 July 1943, SPSO: 320.2 (2d Sig Serv Bn).

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Sergeant Carl L. Card

Promoted to Warrant Officer, Junior Grade, in July 1942.

Promoted to Second Lieutenant, May 1943.

Promoted to First Lieutenant, January 1945.

Sergeant John J. Phalan

Promoted to Second Lieutenant, July 1942.

Promoted to First Lieutenant, 1943.

Corporal Richard E. Kurss

Promoted to Second Lieutenant, May 1943.

Promoted to First Lieutenant, January 1944.

Private First Class Paul A. Gill

Promoted at unknown date to First Lieutenant of guerrillas in the Philippines.

Private Daniel C. Gelb.

Promoted to Second Lieutenant, 8 December 1941.

Now believed to be dead.

Private First Class Berkeley J. Kinkade

Promoted to Second Lieutenant, 8 December 1941.

Missing.

A total of 15 former enlisted men in the Second Signal Service

Company were sent to Officer Candidate School and received commissions

upon graduation. These were as follows:

Class Graduated 1 October 1941

Captain Charles O. Applegate

Major Robert F. Pope

Major Braxton E. Small

Captain Walter E. Trimble

Captain Oscar Wilder, Jr.

Class Graduated 10 January 1942

Major John T. Guernsey

Robert R. Hubbard; subsequent history unknown.

Major Vincent H. Santoro

Major Lawrence D. Terry

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Class Graduated in March 1942

Captain Warren K. Hall  
 Captain Stanley A. Kretlow  
 Major George L. Sampson

Class Graduated 10 May 1942

Major Arthur J. Cadorette

Class Graduated 3 June 1942

First Lieutenant William J. Koczon  
 Captain James B. Nixdorff

H. The Philippine Detachment<sup>69</sup>

The Philippine Detachment, stationed at Fort McKinley, Rizal, Philippine Islands, deserves special mention because, except for the Hawaiian Detachment, which witnessed the Pearl Harbor attack without participating in combat, it was the only unit of the Battalion which was actually under fire. In December 1941 the Philippine Detachment had on its roster 2 officers (one attached) and 16 enlisted men:

Major Joe R. Sherr, Signal Corps, Detachment Commander  
 and Assistant Signal Officer, Philippine Department.  
 1st Lt. Howard W. Brown, Signal Corps.  
 T Sgt Eustace M. Messer, Chief Operator.  
 S Sgt Joseph Sarata, Intercept Operator.  
 S Sgt Lawrence M. Hall, Intercept Operator.  
 Sgt Carl L. Card, Intercept Operator.  
 Sgt John J. Phelan, Intercept Operator.

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69. Much of the material upon which this section is based was collected by T Sgt Michael Maslak. Some of Sergeant Maslak's manuscript was published as the first article of what was to have been a series of articles on the Philippine Detachment, entitled "Signalmen's Odyssey," in the February 1946 (and final) issue of the monthly publication of the Battalion, B-5. The complete story is in the archives of the ASA Historical Unit.

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Cpl Richard E. Furrss, Intercept Operator and Maintenance Man.  
Cpl Irving A. Stein, Intercept Operator.  
Cpl James E. Rhen, Intercept Operator.  
Pfc Daniel Gelb, Intercept Operator.  
Pfc Michael Maslak, Intercept Operator.  
Pfc Paul A. Gill, Intercept Operator.  
Pfc Stanley W. Kapp, Intercept Operator.  
Pfc Berkeley J. Kinkade, Intercept Operator.  
Pfc David H. Summons, Intercept Operator.  
Sgt Wayne R. Hightower, Clerk.  
Pfc Jay E. Bradbury, Clerk

As the Japanese advance on Luzon continued in the spring of 1942, the men who had been assigned to the Second Signal Service Company in the Philippines were scattered through several different units of the Command on Bataan and Corregidor. The two officers and 16 enlisted men listed above were carried on the rolls of the organization until the time when General MacArthur left the Philippines for Australia. On that trip the General was accompanied by Lieutenant Colonel Joe C. Sherr, who had been acting as Officer in Charge of the Manila Detachment. Arriving in Australia, Colonel Sherr assumed duties as Executive Officer to Major General Spencer B. Akin, Signal Officer for the Southwest Pacific Theater, who had formerly been Officer in Charge of the Signal Intelligence Service. In the capacity of Executive Officer to Major General Akin, Colonel Sherr acted as Chairman of the joint British and American committee which prepared the way for the organization in August 1942 of the CBB (Central Bureau in Brisbane). In September 1943 Colonel Sherr, while on a special mission to India and China, was killed in an airplane accident at Calcutta. He was posthumously awarded the Legion of

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Merit on 22 January 1944.

Between 27 and 31 March 1942, 11 men of the Battalion were evacuated by airplane to Del Monte, Mindanao. Of those, seven are known to be living (7 February 1946). Private First Class Paul A. Gill (ASN 6570724) left with the group from Bataan on 28 March 1942. After the surrender in Mindanao he allied himself with the guerrilla forces under the command of Colonel Fertig and was eventually appointed Second Lieutenant of guerrilla forces. In March 1944 he was evacuated to Australia by submarine, and he returned to the United States in July of that year. He is now on duty with the Detachment at Two Rock Ranch Station.

Private First Class Michael Maslak (ASN 6974517) was, at the time of the Japanese landing on Luzon, attending the West Point Preparatory School at Camp John Hay, Baguio. Until the evacuation of Baguio on 24 December 1941, he served as a radio operator in the Camp John Hay Garrison. Evacuated to Bataan, he succeeded on 1 January 1942 in finding the Second Signal Service Detachment on Corregidor. He served for a short time there and at Del Monte as a communications operator. Just before the surrender on Mindanao on 11 May 1942, Private Maslak, together with Private First Class Stanley W. Kapp (ASN 6974025) and Corporal Irving A. Stein (ASN 6982605), took to the hills. A month later, with two Americans and three Filipinos, they set sail for Australia in a native sailing canoe. On 25 September 1942 a Japanese naval craft picked them up

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on a small island to the west of New Guinea and they were taken to an unreported Japanese prison camp at Ambon, Amboina. Private Knapp died in January 1944 and Corporal Stein in July of the same year. The former contracted tuberculosis from exposure; the latter died from a combination of diseases--malaria, beriberi, dysentery, etc., and from overwork, lack of medicine, and a starvation diet. Private Maslak, however, survived and was liberated on 12 September 1945. He returned to the United States shortly thereafter.

Another of the group evacuated from Bataan to Mindanao was Private First Class J. E. Bradbury (ASN 19000060). After arrival at Mindanao, he served with the rest of the group during the time resistance to the enemy continued. Suffering from very bad feet, he could walk only with assistance, and when the island was officially surrendered, he elected to remain behind, choosing to surrender rather than burden the rest of the party with his care. Enroute home via the Philippines, Private Maslak noted Bradbury's name on a list of repatriated prisoners of war. Other prisoners of war, however, told Private Maslak that Bradbury had died in prison camp. He is last known to have been alive at the Cabanatuan Camp in the early days of his imprisonment.

With Private Gill, Private First Class James E. Kahn (ASN 6562156) left Valencia, Mindanao, on 10 May, several hours before Privates Knapp, Stein, and Maslak. After the surrender the two

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eventually joined the guerrilla forces, of which Private Rehn was on his way to becoming a prominent member, when, after an altercation of some minor nature with another American of the same group, he was shot in the back by the other American.

Five members of the group evacuated to Mindanao succeeded in getting air transport to Australia on 14 April 1942. This group comprised First Lieutenant (afterwards Lieutenant Colonel) Howard W. Brown, Technical Sergeant Eustace M. Messer (ASN 6783129), Sergeant Carl L. Gard (ASN 6910304), Sergeant John J. Phelan (ASN 6905576), and Corporal Richard E. Murs (ASN 6938185). All are alive today serving in various capacities.

Sergeant Messer, upon arriving in Australia, transferred to Headquarters, U. S. Army Services of Supply. In July 1942 he was promoted to Master Sergeant and was at the date of the last available information (July 1945) serving with Headquarters, Services of Supply, in Manila.

Sergeant Gard, upon arrival in Australia, became attached to the Royal Australian Air Force and performed intercept duties or duties of a related nature until November 1942. He was promoted to Warrant Officer in July 1942, to Second Lieutenant in May 1943, and to First Lieutenant in January 1945. In July 1945 he was on duty with the Advance Echelon, Central Bureau, San Miguel, Tarlac, Philippine Islands.

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Sergeant Phelan's activities parallel those of Sergeant Card. In July 1942 he was appointed from enlisted grade to the rank of Second Lieutenant and in 1943 was promoted to First Lieutenant. Corporal Nurse was promoted to Master Sergeant in July 1942, to Second Lieutenant in May 1943 and to First Lieutenant in January 1944.

Lieutenant Brown was at first attached to the Royal Australian Air Force, with which he served until November 1942. After that he acted as Radio Intelligence Officer for GHQ and SIS and rose to the rank of Lieutenant Colonel. In May 1945 he returned from Manila to the United States. He reverted to inactive duty in September 1945.<sup>70</sup>

Of the group comprising the original Philippine Detachment, there remain six men not accounted for in the preceding paragraphs. These were Privates First Class David H. Summons (ASN 12010104), Daniel C. Gelb (ASN 6910433), and Berkeley J. Kinkade (ASN 6911171); Staff Sergeants Laurence M. Hall (ASN 6281313) and Joseph Sarata (ASN 6134586); and Sergeant Wayne R. Hightower (ASN 6281393). On 8 December 1941 Privates Gelb and Kinkade were commissioned Second Lieutenants in the Army of the United States. Both served with distinction through the period of resistance up to the fall of Corregidor. Lieutenant Gelb is known to have been captured on

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70. In the files of the Historical Unit, ASA is a monograph by Lieutenant Colonel Brown recounting his experiences.

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Corregidor, for he was listed as a prisoner in the first list submitted to the International Red Cross in Geneva. After the liberation of the Manila area, however, many persons were questioned as to his whereabouts, and none could recall having seen him in any of the prison camps. It is presumed that he was either killed outright by the Japanese or tortured by them in an effort to seek information relative to the signal intelligence activities in which he was engaged. He was, in the opinion of both Colonel Brown and Sergeant Maslak, the best intercept operator ever to have served with the Second Signal Service Company in the Philippines.

While Sergeant Maslak was checking over the officer personnel files at the Philippine Replacement Depot after his liberation, he found Lieutenant Kinkade's name and was told that he had just gone back to the United States. Nothing had been known of Kinkade's fate until Sergeant Maslak's information became available at Battalion Headquarters.

Sergeant Hightower was transferred to a signal supply unit on Bataan as a Master Sergeant, fought in the defense of Bataan, and, when the peninsula fell, swam to Corregidor. Listed as a prisoner when the island fell, he was seen by Sergeant Maslak in October 1945 in the Philippines.

Private First Class Summons, and Sergeants Hall and Sarata, fought with the forces defending Corregidor. All were captured and listed as prisoners on the first Geneva list, but only Sergeant

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Hall was found in a prison camp. He was among those liberated from Cabanatuan prison by the arrival of the American forces. Sergeant Sarata, it was reported to Sergeant Maslak, survived imprisonment until the War ended but was fatally injured when struck in the head by a bale of foodstuffs dropped from an American plane. Nothing is known of the whereabouts of Private Simmons.

Thus, out of 16 enlisted men and two officers, 10 are known to have survived, 6 are known to be dead, and the fate of the remaining 2 is uncertain.

#### I. The WAAC Detachments

Although the Women's Army Auxiliary Corps (WAAC) was founded early in 1942, no women were obtained by the Signal Security Agency until much later. A request was made to the Personnel Division, Office of the Chief Signal Officer, on 31 March 1943 for an allotment of 11 WAAC officers and 800 auxiliaries. The allotment was approved on 14 April 1943 and plans were made for receiving the women. Housing for the enlisted women was requested on 15 June 1943. Ultimately, many of the barracks for men were converted into WAAC barracks and new barracks for men were erected at another site on the Post. It was intended to distribute the 800 auxiliaries as follows:

Arlington Hall Station	550
Virt Hill Farms Station	150
Two Rock Ranch Station	<u>100</u>
Total	800

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But the Waacs did not arrive at once in large numbers. Private Mary K. Akin (ASN A-906435, SSN 400), one of the first auxiliaries to be transferred (11 July 1943) to Arlington Hall, was assigned as a tabulating machine operator. Private Akin did not live on the Post, however, but commuted from Fort Myer. In August six Waacs arrived for assignment to duty at Arlington Hall Station. On 1 September 1943 the Women's Army Auxiliary Corps (WAAC) became the Women's Army Corps (WAC), but there were still no women quartered on the Post. Two enlisted Waacs joined the unimpressive contingent at Arlington Hall Station on 2 October 1943.

A week later, on 9 October 1943, the first enlisted women reached Vint Hill Farms Station (which had had a WAC officer since 15 September) and were formed into the first WAC company. Later in the month, on 22 October 1943, the first Waacs arrived at Two Rock Ranch Station. Thereafter, the strength of the WAC detachments gradually increased until, by the end of December 1943, both Vint Hill Farms Station and Two Rock Ranch Station had reached their allotments, and the WAC detachment at Arlington Hall Station was within 50 per cent of the originally allotted strength of 550 women. Nevertheless, on 1 January 1944, the Arlington Hall allotment was increased by 700 to 1250 enlisted women.

In the early months of 1944 the strength of the WAC detachments continued to grow, but difficulty was experienced in getting enough women to fill the Arlington Hall allotment of 1250. It was soon realized that

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special efforts would be needed if the goal were to be reached. Accordingly, on 24 March 1944 The Adjutant General was requested to authorize recruitment of 600 enlisted women for Arlington Hall Station. Approval was received the next day, the Commanding General, Army Service Forces directing that the recruiting program be carried on in the First, Second, Fifth, Sixth, Seventh, and Ninth Service Commands. At first this recruiting was conducted by Service Command personnel, but later the recruiting officers who had been sent out by the Personnel Branch, Signal Security Agency to recruit civilian employees<sup>71</sup> were pressed into service to recruit Wacs. During the month of May 1944 a total of 23 enlisted women were recruited through this program in the six Service Commands mentioned; by the end of the Fiscal Year 1944, the number recruited had reached 189. This brought the total strength of the enlisted women in the WAC detachments on 30 June 1944 to 823, distributed as follows: Arlington Hall Station 565, Vint Hill Farms Station 155, Two Rock Ranch Station 103.

The WAC Detachment at Arlington Hall Station was, at the beginning of the Fiscal Year 1945, organized into two provisional companies (A Company and B Company) and had a strength of 3 officers, 1 first sergeant, 6 staff sergeants, 15 sergeants, 89 corporals, 244 privates first class, and 210 privates. The division into the two companies was based on assignment of the enlisted women to branches of the

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71. See chapter VI, above.

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Signal Security Agency. The strength showed net gains each month from July to November 1944, with a peak strength on 24 November 1944 of 1116. This means a growth of approximately 100 per cent in five months. As a result, on 20 January 1945, four more provisional companies were activated. From 1 December 1944 through 30 June 1945 normal attrition accounted for a 10.3 per cent loss of personnel, bringing the strength of the Detachment at the end of the Fiscal Year 1945 to 1001.

Originally the enlisted women were housed in EN mobilization-type barracks of one-storey design, but late in the Fiscal Year 1944 they moved into two-storey cinder-block barracks, designed according to WAC specifications and constructed to house 58 enlisted women each in place of the 38 accommodated in the older barracks. As the new barracks were completed, the older barracks were closed, but later increases in the WAC strength necessitated the reopening of the older barracks, and after January 1945 26 barracks (13 old and 13 new) were occupied by WAC enlisted personnel. One building of the newer type was divided into rooms and occupied by noncommissioned officers of the first three grades. All detachment officers were quartered off the Post. The WAC duty officer had quarters on the third floor of Headquarters Building until Temporary Building 112 (the original dispensary) was vacated and remodeled in August 1944 for use as WAC Duty Quarters.

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A WAC training program was organized around the Mobilization Training Program set up by the War Department. Recreational facilities were provided. One of the chief morale problems was caused by the necessity of keeping in a single barracks enlisted women who had worked assignments on different shifts.

On 25 July 1944, the enlisted women of the Arlington Hall detachment paraded in a special presentation ceremony at Fort Myer, Virginia before the Chief Signal Officer, Major General Harry C. Ingles. This formation was in honor of Private First Class Mary Jane Ford, of Vint Hill Farms Station, who was awarded the Soldier's Medal for heroism while stationed at Camp McCoy, Wisconsin. She had risked her own life in an attempt to rescue a soldier from drowning.

J. The Battalion Headquarters during the War

It will have been apparent already that the Second Signal Service Battalion was in no sense an ordinary battalion as the word is generally understood in the Army but a special organization created for a specific purpose, which had no precedent, and it is believed, no parallel in the history of military operations.

As has been stated, the Commanding Officer of the Battalion, after November 1942, was constantly the same officer who also served, simultaneously, as Chief of the Signal Security Agency and Commanding Officer, Arlington Hall Station. Headquarters of the Second Signal Service Battalion remained at Arlington Hall Station throughout the War though it directed operations at many other places.

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Headquarters of the Battalion was merely an Adjutant's Office; functions of General and Special staffs were performed for the personnel of the Battalion by appropriate officers in the several detachments or by officers of the station complements of the various installations directly under the control of the Chief, Signal Security Agency, while all operations in which enlisted personnel of the Battalion were engaged were supervised, controlled, and in many cases conducted by the various Operating Branches of the Agency.

The Battalion was, therefore, not a self-sustaining organization but in effect a Military Personnel Section for enlisted men and women of the Signal Security Agency and for such officers as were assigned duties of company administration in the many detachments of the Battalion. Battalion Headquarters exercised no control whatever over the activities of other officers assigned to the Signal Security Agency.

As the assignment, transfer, and promotion of personnel of the Battalion rested with Battalion Headquarters, it was necessary that a close check be constantly maintained on the personnel of the various detachments. This was accomplished through the morning reports and monthly reports which reflected most of the information that was required by the Battalion in order to control the detachments. The monthly reports were divided into sections covering topics of particular interest to the several branches of the Agency.

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Comments from the members of the Battalion in the various detachments indicated a need for a medium by which they could be brought into closer contact with Headquarters and with each other. For this reason, on 15 December 1944, the first Battalion monthly magazine was issued under the title of "R-5," a name chosen from the procedure signal meaning "reception perfect." The magazine, which was given the classification of CONFIDENTIAL so that technical information of a classified nature could be included, was received with enthusiasm. Personal interest stories and other matters of an unofficial or semi-official nature were solicited from members of the detachments so that "R-5" would not only be an official publication of Battalion Headquarters but would also reflect opinions and comments of the scattered members of the detachments.

On 15 December 1944 operational command and control of the Battalion passed from the Chief Signal Officer to the Assistant Chief of Staff, G-2, when the same transfer was made in the case of the Signal Security Agency and its dependent installations. So far as the Battalion was concerned, this meant that no military personnel could be transferred from the Battalion if the Assistant Chief of Staff, G-2 believed that such transfer might adversely affect the performance of the mission of the Signal Security Agency. In addition, the Assistant Chief of Staff, G-2 was authorized to shift personnel between the Military Intelligence Service and the Signal Security Agency if necessary to facilitate the production of intelligence.

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It was found that considerable confusion existed in the minds of the commanders of detachments of the Battalion because of the tendency of various branches of the Signal Security Agency to correspond directly with the detachment commanders to obtain information needed by the respective branches. Among the branches which required such correspondence were the Supply Branch, which dealt with the detachment on supply matters, the Communications Branch, which dealt with matters pertaining to facilities for interception, and the Traffic Analysis and Control Branch, which was concerned with establishing priorities and missions for interception. It happened on occasion that detachment commanders would receive directives or requests for information which were contradictory. To rectify this situation, a Coordination Section was officially instituted in Battalion Headquarters by SSA Operating Procedure No. 23, 19 March 1945, and thenceforth all correspondence exclusively concerned with intelligence activities passed through the Battalion Adjutant's office. Thus, the detachments had only one SSA office with which to deal. In addition, the Coordination Section was responsible for the recommendation and coordination of the assignment, rotation, transfer, and promotion of personnel of the detachments; augmentation, movement, reduction or elimination of detachments; compiling and publishing, where necessary, of allocations of personnel and facilities; functions and tables of equipment; and the distribution of communications; as well as the coordination and preparing of answers thereto.

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Battalion Headquarters also included two other sections (Personnel, and Orders and Reports). The Personnel Section was responsible: (1) for the performance of all functions of a Unit Personnel Office for enlisted and officer personnel of the Battalion at Arlington Hall Station, as required in appropriate regulations or as directed by higher authority; (2) for maintenance of information 201 files on Battalion officers of the detachments; (3) for providing data for the Orders and Reports Section for the maintenance of information 201 files on all Battalion personnel in the detachments; (4) for maintenance of a machine records card system which provides immediate personnel data on all Battalion personnel; (5) for providing daily strength reports on the Battalion as directed; (6) for maintenance of complete files of Army Regulations, War Department Circulars, War Department Memoranda, ASF and OCSigO Memoranda, and other pertinent publications as directed; (7) for editing, publishing and distribution of the Daily Bulletin for the enlisted personnel at Arlington Hall Station.

The Orders and Reports Section was responsible: (1) for the publishing and distribution of General Orders, Special Orders, Memoranda, and similar directives for Battalion Headquarters; (2) for consolidation and preparation of all forms of correspondence for Battalion Headquarters excepting that prepared in the Personnel Section; (3) for maintenance of a mail desk to receive, record, distribute and expedite all forms of correspondence received in Battalion Headquarters; (4) for maintenance of the general files of

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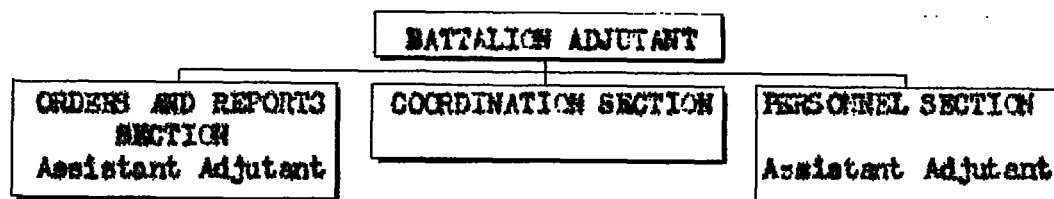
Battalion Headquarters, and information 201 files on all enlisted personnel reports of the Battalion detachments; (5) for preparation of all reports of Battalion Headquarters excepting such routine personnel reports as were prepared by the Personnel Section; (6) for compiling, editing, and publishing the Battalion History and a photographic appendix; (7) for editing, publishing, and distributing the monthly Battalion magazine, "R-5"; (8) and for maintenance and operation of a pool of stenographic and clerical personnel.

With the establishment of the Coordination Section at this Headquarters, instructions for preparation of the Quarterly and Monthly Reports were issued in the form of Memorandum No. 5, 22 March 1945, and distributed to all concerned. The Quarterly Reports were to be submitted with the January, April, July, and October Monthly Reports and were to consist of three parts: Part I, major items of equipment; Part II, listing of teletype communications facilities; and Part III, operations personnel. The Monthly Report was divided into two parts: Part I, Operations, and Part II, General Administration. All reports were given the classification of SECRET.

On 17 January 1945 Captain Arthur J. Cadorette was relieved as Battalion Adjutant by Captain William F. Drees, who had previously been in Communications Branch. Within a few days, a reorganization and expansion of the Adjutant's Office was begun. The following was the arrangement:

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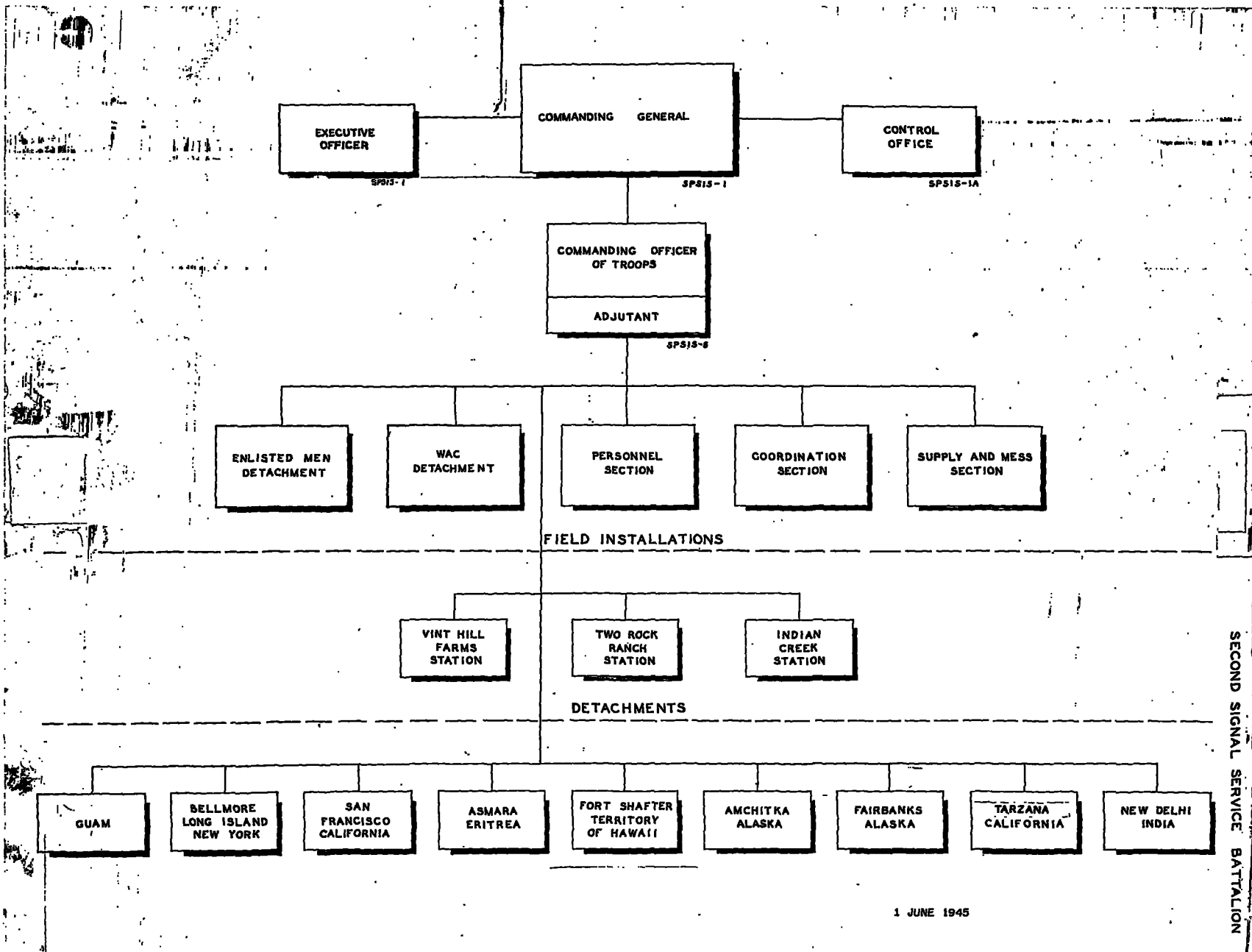
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On 1 February 1945 a new designation for use on morning reports throughout the Signal Corps and Army Service Forces was given the Battalion. Henceforth, the Battalion was to be known as the 9420th Technical Service Unit, Signal Corps. To differentiate between the various detachments, each was given a letter designation: the enlisted men of the Battalion at Arlington Hall Station were designated 8420th Technical Service Unit, Detachment A; the enlisted women at Arlington Hall Station became Detachment B; and so on.

Some confusion existed as to the authority of Detachment Commanders to reduce enlisted personnel for misconduct or inefficiency. On 11 August 1944, all Detachment Commanders were delegated authority for the reduction of enlisted personnel under the provisions of Paragraph 15, AR 615-5, but a report of action and a statement of the reason for the reduction was required by Battalion Headquarters.

In order to achieve a uniform and equitable promotion status for enlisted personnel of this organization, a policy was established in February 1945 which required the Battalion's monthly recommendations to be submitted on a standardized form. The policy further stipulated the following minimum time in grade:

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Grade VII to VI	3 months
Grade VI to V	4 months
Grade V to IV	6 months
Grade IV to III	6 months
Grade III to II	9 months
Grade II to I	12 months

Recommendations submitted monthly were to be received at Battalion Headquarters by the 15th of each month and promotions were to be made effective on the first of the following month.

On 13 March 1945, as a result of continual receipt of directives from higher headquarters regarding the proper utilization of manpower, Memorandum No. 3 was published which required of officers at all levels that the minimum number of qualified personnel be used consistent with the proper performance of the mission of the Agency, and that great care be taken to insure that personnel should be assigned in such a manner as to use their existing skills and training to the fullest extent. Potential skills were to be developed where possible to meet requirements when completely trained personnel were not available. Wherever possible, physically qualified personnel were to be reported eligible for overseas duty and were to be replaced by enlisted women and by enlisted men returned from overseas.

Since final action on all applications for officer candidate schools was taken by Battalion Headquarters, a memorandum was issued on 14 March 1945 to all detachments defining the procedures to be followed in processing applications. These were to be forwarded by Detachment Commanders to the nearest post which convened an Officer

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Candidate School Examining Board, as provided for in Paragraph 3 b (1) AR 625-5. Upon processing by the local Board, the completed applications, together with requests for waiver, where required, were to be forwarded to Battalion Headquarters for review by the ASA Examining Board.

A Battalion-wide plan for the celebration of the Battalion's third anniversary on 20 April 1945 was postponed on account of the death of President Roosevelt on 12 April 1945, but on 19 May 1945 a world-wide celebration was held commemorating the third anniversary of the conversion of the Company to the Second Signal Service Battalion. Each detachment celebrated the day as it saw fit. Reports rendered later to Headquarters indicated that the program of games, dances, and parties were so planned as to avoid interruption of operations.

Upon the announcement of V-E Day (8 May 1945) plans were immediately laid for accelerating redeployment activities. In General Order No. 2, Office of the Chief Signal Officer, 1 May 1945, the Signal Service Battalion was among a group of several organizations to be awarded the Meritorious Service Unit Plaque for superior performance of duty and the achievement and maintenance of a high standard of discipline. Each enlisted person and officer assigned to the Battalion was authorized to wear, for such time as he remained a member of the organization,<sup>72</sup> the sleeve insignia designated for the award.

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72. Under the provisions of War Department Circular No. 54, 22 February 1946, par. 6, members of the Battalion for a period of 60 days or more may now retain the insignia after they leave the Battalion.

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## CHAPTER VIII. OFFICER PERSONNEL

In the two preceding chapters the procurement of civilian and enlisted personnel for the Signal Security Agency was discussed, but, except for incidental references here and there, nothing has as yet been said concerning officer procurement. The officers on duty with the Signal Security Agency during World War II presented a cross section of the entire Army: drawn from every known procurement source, they were of the following groups:

1. Regular Army officers.
2. Regular Army enlisted personnel given AIS commissions.
3. National Guard officers taken into Federal service.
4. Reserve officers employed by the SIS as civilians.
5. Reserve officers who had some training in signal intelligence prior to coming on active duty.
6. Other reserve officers.
7. Civilian employees of the SIS given direct commissions.
8. Other civilians given direct commissions.
9. Graduates of Officer Candidate School.
10. WAAC and WAC officers.

These categories will be discussed in the following sections.

A. Regular Army Officers

A total of 14 Regular Army officers were on duty with the Signal Security Agency (or the Second Signal Service Battalion) between the attack on Pearl Harbor and the capitulation of Japan. These were as follows:

Colonel<sup>1</sup> Rex W. Minkler, who was Chief, Signal Intelligence Service from 7 June 1941 till 1 May 1942, when he was succeeded

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1. In each case the grade indicated is the highest held during the officer's connection with the Signal Security Agency.

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by Colonel Bullock. He then became Chief of Operations, SIS on 22 April 1942 and remained in this position until 16 November 1942, when he became Commanding Officer, Vint Hill Farms Station, from which command he was relieved by Colonel Charles H. Judson on 17 June 1943.

Colonel Frank W. Bullock, who became Officer in Charge, Signal Intelligence Service on 2 May 1942, Commanding Officer, Arlington Hall Station on 31 July 1942; and Commanding Officer, Second Signal Service Battalion on 19 November 1942, from all of which posts he was relieved on 31 January 1943 by Colonel Corderman.

Brigadier General W. Preston Corderman, who became Chief, Signal Security Branch and Signal Security Agency, and Commanding Officer, Second Signal Service Battalion and Arlington Hall Station on 1 February 1943. From 18 June 1945 to 31 March 1946, when he was relieved from his duties by Colonel Hayes, he held the temporary rank of Brigadier General, USA.

Colonel Harold G. Hayes, who was Executive Officer, Signal Intelligence Service from 6 January 1940 until relieved for overseas assignment in May 1942. He returned to the Signal Security Agency on 1 April 1944 and became Chief, successively, of the Cryptanalytic Branch, and of the Intelligence Division, relieving Colonel Cook. On 17 March 1945 he relieved Colonel Collins as Assistant Commandant. On 23 November 1945 he became Assistant Chief, Operations. He became Chief, Army Security Agency on 1 April 1946, relieving General Corderman.

Colonel Harold Doud, who, after taking a course in the Signal Intelligence School, was assigned on 8 August 1941 as Chief, Cryptanalytic (B) Branch, from which he was relieved by Colonel Cook on 12 July 1943.

Colonel Earle F. Cook, who was, from 1 August 1941 till 12 July 1943, Chief, Cryptographic (C) Branch. He was relieved by Colonel Doud, who in turn was relieved by Colonel Hayes on 1 April 1944 and for a time was assigned to the Administrative Branch. He became Control Officer on 21 August 1944. On 1 May 1945 he was assigned to duties in London with MIS. He became Director, Army Security Agency, Europe on 30 November 1945.

Colonel Robert E. Schukraft, who served as Officer in Charge of Section B-6 and later of Communications Branch, of which latter post he was relieved on 11 November 1942 and sent to Vint Hill Farms Station as Commanding Officer, Monitoring Station No. 1.

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Colonel Samuel P. Collins, who, after a period of duty with the American Intelligence Service, Miami Beach, Florida, became on 15 April 1943 Assistant Commandant, Signal Security Agency, a post which he held until 8 March 1945, when he was relieved. Since 23 November 1945 he has been Director, Army Security Agency, Pacific.

Colonel Eric H. P. Svensson, who, as a Cavalry Officer, had been a language student in Japan and was assigned to the Signal Intelligence Service on 26 July 1941. He served until October 1942 in the Cryptanalytic Branch, part of the time as its Executive Officer.

Colonel Alva Brasted, Chaplain, who for a short time in 1943 was Chaplain of Arlington Hall Station.

Lieutenant Colonel Harold McD. Brown, who was assigned to the Signal Intelligence Service on 14 October 1941 and on 16 November 1942 became Chief, Communications (E) Branch. He served as Chief, Operating Services Division, from 21 August 1944 until relieved on 23 October 1944.

Lieutenant Colonel Lawrence C. Sheets, who was Chief of the Protective Security (A) Branch from its founding (20 November 1942). He continued to serve in that capacity after its transfer to Arlington Hall Station until 19 November 1944, when he was relieved.

Lieutenant Colonel Harry J. Lewis, who, served as Commanding Officer, Vint Hill Farms Station from 29 August 1942 to 14 November 1942 and as Commanding Officer of Troops from 16 November 1942 to 17 September 1943 and as Director of Training thereafter until 27 April 1944, when he was relieved.

Major F. M. Breitenbacher, who was Chief of the Supply Branch from 18 March to 14 October 1945.

Mention should be made of the fact that five of the officers named had been students, and in some instances instructors also, in the Signal Intelligence School. They were thus acquainted with all phases of signal intelligence and well prepared to serve as administrators on a high level. The other officers, who were assigned to the Agency without this specialized training, were faced with the

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difficulty of mastering the subject after their assignment. There were, in addition to the officers mention above, a few others who had been graduated from the Signal Intelligence School (Colonels George A. Bisher, J. C. Sherr, Harrod G. Miller, and Charles Bundy Brown) but with the exception of Colonel Miller, they were engaged in similar activities overseas.

Two other Regular Army officers were assigned to the Agency, though not in status as such. Lieutenant Colonel James Henley Frier, Jr. was a graduate of the Military Academy (Class of 1917) and had served in World War I. In 1921, however, he resigned from the Army and pursued a business career. In World War II he served as an AIS officer. Captain Mark Rhoads, who was also a graduate of the Military Academy (Class of 1918) served successively in the Cavalry and the Signal Corps. He was graduated from the Signal Intelligence School as its first student and had reached the rank of Captain when, in 1935, he contracted tuberculosis in the Philippines and was forced to retire by reason of physical disability. Later, after the beginning of the War, having recovered completely, he applied repeatedly for reinstatement to active duty in the Army. But, though his applications were urgently recommended by the Signal Intelligence Service, the Surgeon General's Office refused to reinstate him. In the end he became a civilian employee of the Agency and has since served as Assistant to Mr. Friedman, Director of Communications Research. His experience raises the question of

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whether the work of the Agency would not have been greatly furthered if it had been possible to operate with different gradations of service based on the specific physical requirements for the work. Signal intelligence is an activity which, even in overseas operations, usually does not demand bodily vigor so much as highly-specialized skills and experience. Captain Rhoads had been thoroughly trained in signal intelligence, he had recovered to the point where he was, while in retirement, operating a business, and, as a civilian, he did work not differing in type from that performed by most of the Agency's officers, yet he could not serve the Agency as an Army officer.

#### B. Regular Army Enlisted Men

As we have seen in chapter VII, a few of the enlisted men in the old Second Signal Service Company were afterwards granted direct commissions and a somewhat larger number were sent to Officer Candidate School, from which they obtained their commissions upon graduation. For the most part, these officers served as administrative or operations officers with the Second Signal Service Battalion, but in a number of instances they worked in other operational activities of the Agency.

#### C. National Guard Officers

The general nature of the military training given to units of the National Guard in peacetime and the fact that signal intelligence

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has never been one of the specialized fields in which this instruction has been given made it unlikely that many National Guard officers would be qualified for service with the Signal Intelligence Service. Nevertheless, at least one officer was obtained from this source. He was transferred from the National Guard to the Signal Intelligence Service because of his knowledge of foreign languages.

D. Reserve Officers Employed as Civilians

The Signal Intelligence Service in peacetime had maintained a policy of granting Reserve commissions to all its male employees who could qualify physically in the Signal Reserve Corps. As a matter of fact, Mr. John B. Hurt, whose health was poor, was the only such employee who was never able to qualify. Mr. William F. Friedman, the Principal Cryptanalyst of the Signal Intelligence Service, had held such a commission and had reached the rank of Lieutenant Colonel when in 1940 he was called to active duty. Shortly thereafter, however, he suffered a period of ill health as the result of which he was declared by the Surgeon General to be permanently incapacitated for further duty by reason of physical disability. He thus reverted, upon recovery, to his former status of civilian employee of the Signal Intelligence Service and thereafter continued to serve in the capacity of Director of Communications Research.

Other officers who similarly held Reserve commissions were:

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Colonel<sup>2</sup> Abraham Sinkov, Assistant Director, and Commanding Officer, SIS,<sup>3</sup> GHQ, Central Bureau, Brisbane.  
 Colonel Solomon Kullback, Chief, Military Cryptanalytic Branch.  
 Colonel Frank B. Rowlett, Chief, General Cryptanalytic Branch.  
 Lieutenant Colonel Herrick F. Pearce, Chief, Romance Language Section, General Cryptanalytic Branch.<sup>4</sup>  
 Lieutenant Colonel Lawrence Clark, Executive Officer, and Commanding Officer, SIS,<sup>5</sup> GHQ, Central Bureau, Brisbane.  
 Lieutenant Colonel Leo Rosen, Chief, Equipment Branch.  
 Major James H. Douglas, Chief, Communications Security Branch.  
 Major James Hoak, SIS Officer, GHQ, Tokyo.  
 Captain Vernon E. Coley, CIG, Special Projects Unit, Communications Security Branch.

#### K. Other Reserve Officers

A limited number of Signal Reserve officers had been trained in signal intelligence prior to their being called to active duty. Part of the peacetime training program of the Signal Intelligence Service had consisted of short periods of active duty in which a few officers of the Signal Reserve and the Military Intelligence Reserve had been given such instruction as time and limited funds permitted. Of the officers in this group, only four later served with the Signal Security Agency:

Lieutenant Colonel A. J. McGrail, Chief, Laboratory Branch.  
 Lieutenant Colonel J. E. Mathews, Adjutant, Signal Intelligence Service.  
 Major Ulrich S. Lyons, Officer in Charge of Cryptanalytic units.  
 Major Edward J. Vogel, CIG, Special Examination Unit.

2. The rank and title in each case are those held at the end of the war.
3. Strictly speaking, this officer while in Australia was not part of the Signal Intelligence Service or of the Signal Security Agency, but prior to his departure for Australia in May 1942, he was in charge of the Italian Diplomatic Cryptanalytic Section.
4. Colonel Pearce held the position indicated both before and after his tour of duty in the North African and European Theaters.
5. See note 3.

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A somewhat larger group of officers had been trained in signal intelligence as part of their ROTC training.<sup>6</sup> But, in addition to these two groups, there were many other Reserve officers who were assigned to the Signal Intelligence Service when the War began because they possessed specialized skills in the fields in which the Signal Intelligence Service badly needed personnel. Usually these officers were skilled in languages, mathematics, or engineering.

F. Officers Directly Commissioned

After the War began, the Signal Security Agency was able to obtain direct commissions for some of its male civilian employees, but the number of such commissions was strictly limited by Army-wide directives which forbade the granting of direct commissions to persons below a certain age (at first it was 30, then 35 years of age), or to persons about to be inducted by Selective Service, and, of course, the universal requirement of a satisfactory report on physical condition tended to eliminate some candidates. Not all of the civilians who were qualified physically and mentally for commissions got them, however, and in many cases those who did get them received them only after long delays, making them in some cases junior in military rank to others who were inferior in skill and experience in signal intelligence. Many highly competent civilian employees were, of course, subject to induction by Selective Service. In some instances induction was prevented by requests directed

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6. See volume Twelve.

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through channels to the Director of Selective Service to stop such induction on the grounds that these persons were doing essential work, as indeed they were. The number of such requests was limited by War Department policies designed especially to prevent abuses of the privilege. In many other cases the loss of valuable employees through induction and subsequent assignment to another organization was avoided only by the voluntary enlistment of the inductees prior to his notification to report for induction. Such enlistment with the Signal Security Agency, in some cases without any period of basic training, saved these skilled men for the activities of the Agency. Nevertheless, though they were frequently engaged in precisely the same kind of work as was assigned to commissioned officers, they often remained as enlisted men throughout the War since their services were too critically needed to permit them to enter Officer Candidate School. It seems certain that the Agency would have been able to operate much more efficiently, since morale would have been better, had it been able to grant direct commissions to all its civilian employees who were physically qualified.

A still larger number of officers were given direct commissions without previous experience in signal intelligence work. In every case they were qualified for a commission by reason of age, physical condition, draft status, etc., and they had all had sufficient experience and skill in some civilian occupation to make it likely that, with some additional on-the-job training in signal intelligence work, they could measure up to the requirements for officers of the Agency. For the most part these

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officers were commissioned in the grade of lieutenant, though a few (mostly veterans of World War I, and commissioned veterans at that) began as captains. After the early months of 1943 War Department directives stopped the granting of such commissions entirely.

#### G. Graduates of Officer Candidate School

Admission has already been made to the enlisted men of the old Second Signal Service Company who in 1941 and 1942 were sent to Officer Candidate School.<sup>7</sup> The policy was continued thereafter, and many enlisted men of the Signal Security Agency were graduated by Officer Candidate School and returned to the Agency for their first assignment, frequently to the very same job which they had left to go to OCS.<sup>8</sup> The record made by these men in Officer Candidate School was extremely high, amounting approximately to 100 per cent. It should be borne in mind, however, that the quota for each class was extremely low when considered in the light of a percentage of the troops on duty at Arlington Hall Station and other subordinate stations; when compared with the number of men who were obviously qualified for positions of leadership, the disparity was still greater. Moreover, many of the enlisted personnel

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7. See section G, chapter VII, p 226.

8. This was not because officers were assigned to positions properly filled by enlisted men but to the contrary fact that enlisted men had satisfactorily filled positions normally held by officers. Many of the citations for decorations which were awarded after the War contained a statement such as the following: "Sergeant \_\_\_\_\_ performed duties normally assigned to a commissioned officer."

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could not, as has been said, be spared from their current operational duties, and many others had lacked the necessary basic training. In addition, it cannot be said that the kind of training given at Officer Candidate School was of immediate practical advantage to the graduates in their work with the Agency. Here again, it may definitely be stated that, had the Agency been permitted to give direct commissions to such of its enlisted personnel as were mentally and physically qualified, much time and effort that was expended by the men in going through Officer Candidate School would have been saved for operations.

#### H. NAAC and WAC Officers

The use of enlisted women in most, if not all, of the activities of the Signal Security Agency, presupposed that a sufficient number of WAC officers would be assigned to serve as administrative officers in the various detachments. In addition to these company officers, a large number of other women were assigned to replace male officers. With one exception, however, these WAC officers had had no experience or training in signal intelligence before their assignment to the Signal Security Agency, and they were not carefully selected out of the total number of available graduates of WAC officer candidate schools. Instead, they had been selected for Officer Candidate School by their respective commanding officers on the basis of general, rather than specific, qualifications. They were, therefore, at a great disadvantage in competing with the more highly selected male officers; for this reason

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their record, though less brilliant than that of the men, must be adjudged very creditable.

No women employees of the Agency were ever given direct commissions. The only source of WAC officers available, therefore, was the normal procurement through the WAC Officer Candidate Schools.<sup>9</sup> It happened that only one civilian employee of the Agency, First Lieutenant (since 21 January 1947, Captain) Mary Charlotte Lane, enlisted in the Women's Army Corps, went through Officer Candidate School, and then returned to the Agency for assignment. The time Lieutenant Lane spent away from Arlington Hall Station, at least so far as the business of the Signal Security Agency is concerned, may be regarded as having been largely wasted.

#### I. Conclusion

The achievements of the officers composing each of the categories which have been discussed above were of varying degrees of brilliance. In each group some officers were superior, some competent, and some, though diligent, were not at all suited by temperament, training, or mental capacity to be efficient in cryptologic work. In fact, the lesson that can be learned from a study of the experience of the Signal Security Agency in officer procurement is that the most important thing to be considered in selection of officers is not the group from which an officer comes but his mental capacity as an individual

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9. Such was the need for WAC officers in the Agency that one whole class, (the 48th of Ogalthorpe) of 63 WAC officers was assigned upon graduation (5 February 1944) to Arlington Hall Station.

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and his experience in the cryptologic field. For if any one of the groups mentioned above can be said to have had a higher percentage of brilliant achievement than another, it was that group which, having been civilian employees of the Signal Intelligence Service in peacetime, had been very carefully selected in the first place and had longer and wider experience in signal intelligence work than the others. These employees were on the whole, best prepared to supervise. This fact, revealing as it does the all-important factor of experience and training, has tremendous significance for the future. If the strength of the Army Security Agency in the postwar period can be kept sufficiently high, it may be possible to operate, in the event of another emergency, with an officer staff made up entirely or largely of men with long experience and training in signal intelligence work.

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CHAPTER IX. THE YEARS 1943-1945

In the first four chapters of this History of the Signal Security Agency the development of the Agency was followed in chronological order to the end of the year 1942. In the next four chapters, however, we turned aside from this method to discuss two pertinent problems which had to be solved: the establishment of an adequate home for the Agency (in chapter V), and the procurement of personnel (in chapters VI-VIII). We now take up the thread of the chronological narrative at the point where it was broken off at the end of chapter IV. It may seem at first glance that to devote a single chapter to the events of nearly three years (1943, 1944, and the first eight months of 1945), while treating the earlier period in greater detail, is inconsistent, but such is not the case. By early 1943 the groundwork for the development of the Signal Security Agency had already been well laid, and the activities of the Agency thereafter consisted largely of the fulfillment of the plans already made; the perfecting of the organization to eliminate deficiencies which in time became apparent; and the pushing forward at full speed of the tasks in hand. Moreover, the larger part of the story of the war years is contained in the description of the various operating branches which will be found in the following volumes of the History.

There remain, however, certain broad policies which need comment.

A. The Command

The period under discussion in this chapter approximates roughly

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the period of command of Colonel (from 18 June 1945, Brigadier General) W. Preston Corderman, though, to be sure, Colonel Frank W. Bullock was still in command at the beginning of the period and Brigadier General Corderman remained in charge until he was relieved for an overseas assignment on 31 March 1946.

On 1 February 1943 Colonel Bullock was relieved by Colonel Corderman of his responsibilities as Chief of the Signal Security Agency, Commanding Officer of the Second Signal Service Battalion, and Commanding Officer of Arlington Hall Station. How this three-fold responsibility came to be lodged in a single officer can only be understood by going back to the year 1942, when the Signal Intelligence Service, as the Agency was then called, was still housed in the Munitions Building. Colonel Bullock had assumed command on 22 April 1942 as Officer in Charge of the Signal Security Agency. To this responsibility was added on 31 July 1942 the additional duties of Commanding Officer, Arlington Hall Station. Colonel Bullock was assisted, insofar as the duties relating to the development of the Station were concerned, by Lieutenant Colonel Charles M. Blackmon, whose title was that of Assistant Commandant. On 19 November 1942 there were added to Colonel Bullock's responsibilities the duties of Commanding Officer, Second Signal Service Battalion, in the exercise of which Colonel Bullock was assisted by Major Robert E. Schukraft, Chief of the Communications Section, and by the Adjutant of the Battalion. Thus, while control

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was placed in a single officer at the top, Colonel Bullock's several responsibilities were in most cases delegated to subordinate officers, who relieved him of routine duties. This made the position of command three-fold; as will shortly be seen, however, the command was really four-fold, at least on paper.

### B. Changes in the Name of the Agency

When, early in 1930, primary responsibility for both communications security and signal intelligence activities had finally been amalgamated under the Chief Signal Officer, the new organization was officially known as the Signal Intelligence Service,<sup>1</sup> a name which it was destined to retain for 12 years. This designation, while in some ways adequate, did not give any indication of the communications-security responsibilities which the organization held. Moreover, it drew attention to the fact that the organization was in some way concerned with intelligence, and this was, from the point of view of security, an undesirable feature.

The first wartime change of name,<sup>2</sup> however, did nothing to

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1. In the organization charts of the Office of the Chief Signal Officer prior to 1937 the organization was designated as the Signal Intelligence Section. See p. 182, sec. A, chapter V, volume Three, Historical Background of the Signal Security Agency. See also Signal Corps Administrative Log 1939-1945.
  2. The evidence for statements herein as regards changes of name is to be found in a series of secret tables of organization of the Office of the Chief Signal Officer. They were consulted in the Control Division, Office of the Chief Signal Officer, on 8 November 1945.

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rectify this: on 22 June 1942 the old Signal Intelligence Service (SIS) became the Signal Intelligence Division (SID). This change was obviously motivated chiefly by expansions and reorganizations within the Office of the Chief Signal Officer.

A more radical change took place, however, on 30 September 1942 when the Signal Intelligence Division (SID) became the Signal Security Branch (SSB). This Branch, which was essentially the SIS under a new name, should not be confused with another SSB which will shortly be mentioned. With the change of 30 September 1942 the word "intelligence" ceased to be part of the name of the Agency, and it has to this date (21 June 1946) not been restored. After the founding of the Army Communications Branch (ACB) of the Office of the Chief Signal Officer under Brigadier General Stoner's command, which changed its name to Army Communications Division (ACD) and to Army Communications Service (ACS), the administration of the Signal Intelligence Service--Signal Intelligence Division--Signal Security Branch, by whatever name it was called, was always a subordinate part of General Stoner's responsibilities. This status was in effect as late as the date of a table of organization published on 10 February 1943 (shortly after assumption of command by Colonel Corderman) which shows a new organization, the Signal Security Division (SSD). This organization, not subordinate to the Army Communications Division but coequal with it, was a departmental agency;<sup>3</sup>

3. This designation corresponds with a distinction made by the Civil Service regulations, which provides a system of apportionment of personnel for "departmental agencies" equitably by states. The Civil Service regulations for "field agencies," on the other hand, are less restrictive and are administered by regional offices of the Civil Service.

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II.

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under the Signal Security Division there is shown a subordinate echelon, a "field agency", known as the Signal Security Service (SSS). The chief of both the Signal Security Division and the Signal Security Service was, however, the same officer, Colonel Corderman. Whether the table of organization just mentioned was in error in showing the Signal Security Service as not being subordinate to General Stoner's Army Communications Division, or whether there was a short period when the Signal Security Service and the Signal Security Division were independent of the ACD is not of record, but it was always believed in the Signal Security Service that the next officer in the chain of command was General Stoner, as had been true for about a year prior to this time and was certainly true after 1 July 1943.<sup>4</sup> A table of organization published on that date once more changed the name of the Agency, this time to Signal Security Agency (SSA), a name which remained in effect until 15 September 1945, when, for reasons which will be explained later, it was finally changed to Army Security Agency (ASA).

In addition to the Signal Security Agency there appears on the Table of Organization, 1 July 1943 a staff (or "departmental") organization in the Office of the Chief Signal Officer known as the Signal Security Branch (SSB) and Colonel Corderman was Chief of this Branch

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4. Mr. Friedman says on this point: "I believe the intention was to have the SSD and ACD co-equal, but personnel complications made this impractical. There was no Signal Corps officer of suitable rank and experience in Signal Intelligence to head the organization."

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as well as Chief of the Signal Security Agency, the "field service."<sup>5</sup> The only person belonging to this Signal Security Branch was Colonel Corderman, and its correspondence, which was not voluminous, was prepared at Arlington Hall Station for the signature of Colonel Corderman. For all practical purposes, this Signal Security Branch may be eliminated from further discussion. The arrangement in this respect was purely for administrative reasons: all Signal Corps organizations which were physically located outside Washington were considered to belong to what was generally called the "field service"; in Washington, as a part of the "departmental service", there was usually some staff unit in the Office of the Chief Signal Officer which administered the field unit and served staff functions for it. The SSA and SSB conformed to this general pattern, as did all other units under the Chief Signal Officer.

#### C. The Organisation

At the time of the Pearl Harbor attack the 331<sup>6</sup> officers, enlisted men, and civilian employees of the Signal Intelligence Service were

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5. From its inception the SIS was sometimes referred to as the "Signal Intelligence Service at Large."
  6. The breakdown of the 331 employees was as follows:

	<u>In Washington</u>	<u>In the Field</u>	<u>Total</u>
Officers	44	1	45
Enlisted men	28	149	177
Civilians	<u>109</u>	<u>0</u>	<u>109</u>
Total	181	150	331

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organized into four sections as follows:

- A. Administrative
- B. Cryptanalytic
- C. Cryptographic
- D. Laboratory

In addition to these four sections, the enlisted men who performed intercept operations were organized into detachments of the Second Signal Service Company.<sup>7</sup> Twenty-eight of the men of the Company were on duty in Washington and were assigned to the four sections.

The Administrative (A) Section performed those duties normally associated with the word "administrative": supervision, personnel work, etc. It contained a subsection (A-1), however, which operated tabulating machinery. This subsection later was attached to the Cryptanalytic (B) Section (as B-7) and subsequently became the Machine Branch (SPSIN).<sup>8</sup>

The Cryptanalytic Section contained at that time four subsections devoted to the cryptanalytic study of as many types of traffic. One worked on Japanese systems, another on German systems, and a third on Italian systems, while the fourth was a sort of omnium gatherum subsection which studied Mexican and other Latin-American systems as well as systems of France, Spain, and Portugal. The four Cryptanalytic subsections, after several expansions and reorganizations, ultimately became the General Cryptanalytic Branch (SPSIB-3),<sup>9</sup> the Military

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7. On the Second Signal Service Company, see chapter VII. above.

8. For the full history of the Machine Branch, see volume Eleven.

9. For the full history of the General Cryptanalytic Branch, see volume Two.

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Cryptanalytic Branch (SPSIB-2),<sup>10</sup> and the Language Branch (SPSIB-1).<sup>11</sup>

In addition to the four "Language subsections," there were two others which performed, respectively, stenographic and traffic control and routing tasks. The former was chiefly concerned with the typing of the daily Bulletin of translated traffic; the latter not only received, sorted, and delivered the traffic to the Cryptanalytic sections but also formed a channel through which intercept control was possible. It ultimately became known, successively, as "E Branch" and the Communications Branch (SPSIE).<sup>12</sup> Likewise, the Stenographic Subsection was ultimately one of the units united to form the Information and Liaison Branch (SPSIR).<sup>13</sup>

The Cryptographic (C) Section performed all duties concerned with the invention, development, production, distribution, and accounting for all cryptographic systems adopted by the United States Army (including security studies of systems in use) and with the monitoring of traffic for violations of communications security. The Section was subdivided into seven subsections (C-1 to C-7). After several expansions and reorganizations these seven subsections ultimately became the Communications Security Branch (SPSIS-SA),<sup>14</sup> the Cryptographic Material

10. For the full history of the Military Cryptanalytic Branch, see volume Three.

11. For the full history of the Language Branch, see volume Four.

12. For the full history of the Communications Branch, see volume Six.

13. For the full history of the Information and Liaison Branch, see volume Seven.

14. For the full history of the Communications Security Branch, see volume Eight.

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Branch (SPSIC),<sup>15</sup> and the Equipment Branch (SPSIF).<sup>16</sup>

The Laboratory (D) Section at this period already had the three-fold function of preparing secret inks for the use of the United States Army, of detecting the use of secret inks in suspected documents, and of performing photographic services. It ultimately became the Laboratory Branch (SPSID).<sup>17</sup>

The four sections (A, B, C, and D) mentioned above comprised the entire Agency until August 1942, when, with the move to Arlington Hall Station, Subsection B-6 (Traffic) was removed from B Section and made Subsection E of the Communications Section. Later, on 15 December 1942, the Shop of the Cryptographic Section was removed from that section and became the nucleus of F Section (later the Development Branch, and still later the Equipment Branch). Another subsection of B Section was likewise elevated to the status of a section when the Tabulating Machinery Subsection, then called B-4, was, in January 1944, given autonomous standing as G Branch (later known as the Machine Branch).<sup>18</sup> It will be noted that soon

- 
15. For the full history of the Cryptographic Materiel Branch, see volume Eight.
16. For the full history of the Equipment Branch, see volume Nine.
17. For the full history of the Laboratory Branch, see volume Seven.
18. When G Branch was set up, certain elements of E Branch concerned with traffic analysis and control were set up as B-4.

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after the activation of F Section (15 December 1942), the term "branch" began to be used in place of "section". The change was made official in Memo No. 7, 26 March 1943, subject, "Reorganization."

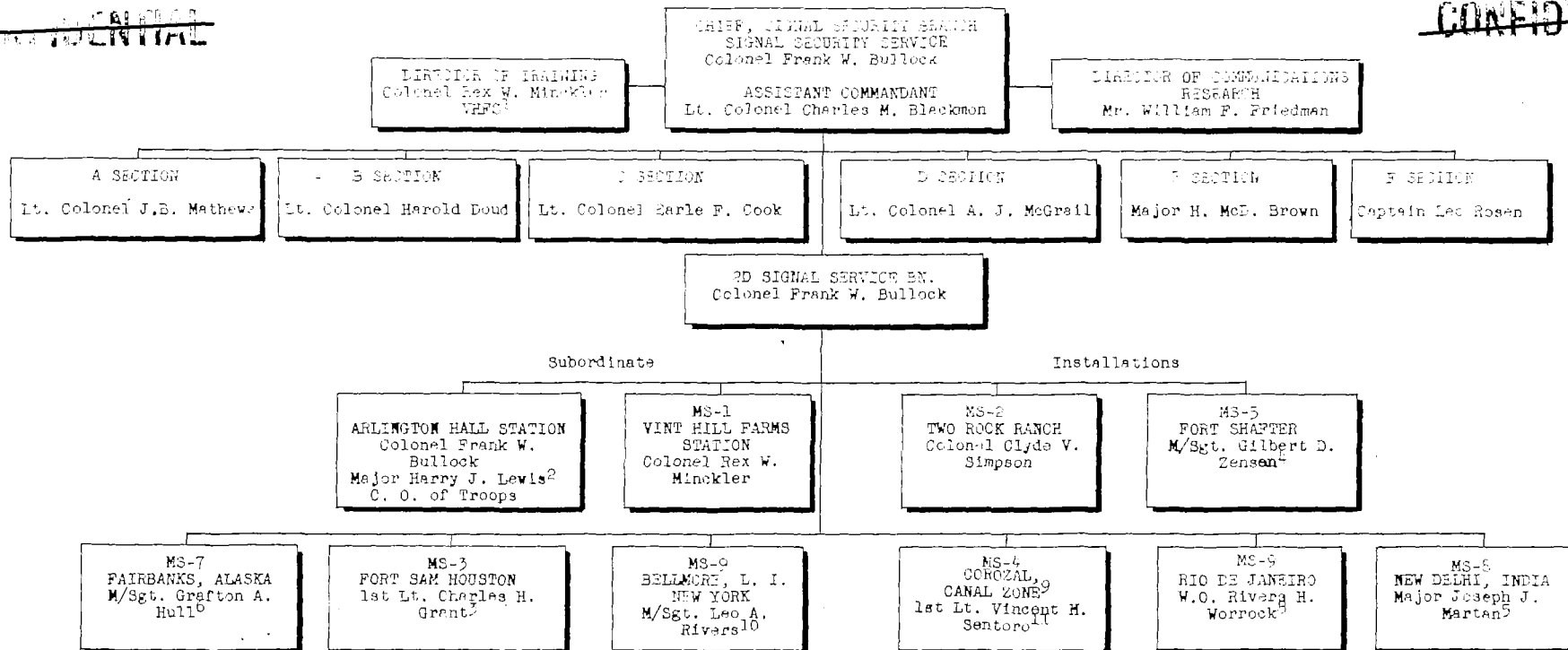
See Tab

In the organization as described thus far, the letter "A" designated the administrative overhead of the Agency, but after the Protective Security Branch (SPSAP),<sup>19</sup> which had been established (18 November 1942) in the Office of the Chief Signal Officer, was transferred on 13 April 1943 to the Signal Security Agency, the letter "A" was used to designate the Protective Security Branch. The older "A Section", which by this time comprised a complexity of units performing overhead administrative duties (general supervision, personnel, personnel services, and administration of Arlington Hall Station, including the Guard, the Dispensary, the Post Engineer, etc., now became "Headquarters" (later "Headquarters Branch") with the Administrative Officer, Arlington Hall Station as Officer in Charge. Headquarters Branch performed, in fact, all functions of the Agency not primarily concerned with operations. The Administrative Officer, in addition to his other duties, served as Commanding Officer of Troops, a position which gave him direct supervision of all enlisted personnel of the Battalion stationed at Arlington Hall except that his control did not extend to supervision

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19. For the full history of the Protective Security Branch, see volume I.

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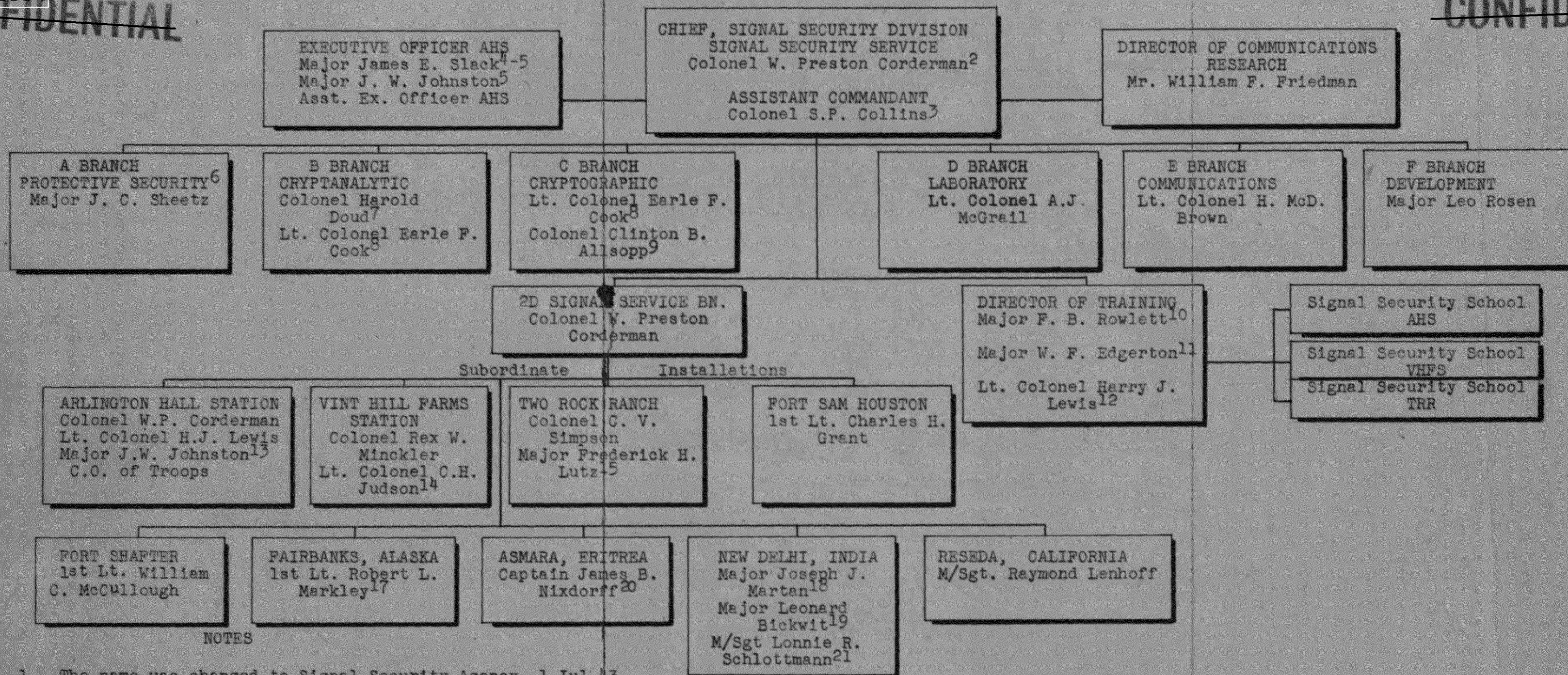
## NOTES

1. Serves as Director of Training, AHS and VHPS, and C.O., VHPS, per S.O. 66, par 1, AHS, 16 Nov. 42.
2. Appointed per S.O. 66, par 3, AHS, 16 Nov. 42.
3. Relieved from Det 2d Sig Sv Bn, 2 Sep 43 per S.O. 200, par 3, OCSigo O.O., 22 Sep 43.
4. Relieved from 972 Sig Sv Bn, per Hq USAF MIDPAC, 1 Feb 46. Became Captain 10 Mar 44.
5. Sent from AHS on secret orders dated 2 Jan 42. Returned from New Delhi 9 Feb 44.
6. Relieved per PAC Ltr WD OCSigo, 13 Jul 44.
7. Deactivated 19 Feb 43.
8. Served under Brigadier General Claude M. Adams.
9. The detachment at Corozal was deactivated 19 Feb 43.
10. Sergeant Rivers (alias Rzczkowski) was attached to 1st Base Hq AB Sqdn AAB, Mitchell Field, L.I. N.Y. on 10 Nov 43 and was transferred to Hq 2d Sig Sv Bn, AHS per S.O. 227, 9 Oct 44.
11. Lieutenant Sentoro served as CO from February 1942 to 19 Feb 43.

SIGNAL SECURITY SERVICE  
31 January 1943~~CONFIDENTIAL~~~~CONFIDENTIAL~~

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NOTES

1. The name was changed to Signal Security Agency, 1 Jul 43.
2. Assumed command per S.O. 21, par 1, 1 Feb 43.
3. Assigned 15 Apr 43.
4. Appointed Adjutant per S.O. 29, par 1, 10 Feb 43, relieved S.O. 40, par 11, 23 Feb 43.
5. Appointed S.O. 40, par 8, 23 Feb 43.
6. Transferred from OCSigO, 2 Dec 42 and created branch in SSS, 13 Apr 43.
7. Relieved as Chief, B Branch, 12 Jul 43.
8. Relieved Chief, C Branch, and transferred as Chief, B Branch, per S.O. 158, par 14, 12 Jul 43.
9. Assigned Chief, C Branch, S.O. 158, par 13, 12 Jul 42.
10. Acting, on creation of Branch, 26 Mar 43.
11. Succeeded Major Rowlett, 2 Jul 43.
12. Succeeded Major Edgerton, 17 Sep 43.
13. Relieved Lt. Colonel Lewis, S.O. 223, par 1, 25 Sep 43.
14. Relieved Col. Minckler, 17 Jun 43.
15. Relieved Col. Simpson, 26 May 43.
16. Fort Sam Houston Station was deactivated 28 Sep 43.
17. 1 Jan 44 to 11 Jul 44, assigned to 2d Sig Sv Bn. Transferred to Hq. ACS per S.O. 174, par 2, 22 Jun 44.
18. Returned to the United States per classified radio WD 3 November 43 and L.O. Hq USAF CBI dated 9 Feb 44.
19. Major Bickwit organized and controlled the SIS in both China and India, 10 Oct 43 to 13 Jun 45.
20. Assigned C.O. 16 Nov 43.
21. Sergeant Schlottmann was put in charge of operations by Major Martan, who established MS-8, and became NCO in Charge upon Major Martan's departure on 9 February 44.

SIGNAL SECURITY SERVICE<sup>1</sup>  
15 April 1943 - 1 March 1944

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IX.

The Years 1943-1945

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over the technical duties they performed in the operating units.

Headquarters Branch contained, from 5 July 1943 to 29 February 1944, a unit known as the Coordination Section, together with various service sections (Bulletin, Information, Library) and certain documentation and liaison units which had always been concerned chiefly with operations and which were located in Operations B Building. These diverse elements of the Coordination Section and the Information and Liaison Section were amalgamated on 1 March 1944 to form the Information and Liaison Branch (SPSIR), leaving Headquarters Branch with what came to be known as the Arlington Hall Station complement.

We now return to the Cryptanalytic (B) Branch, which, at the point when we last mentioned it (p. 267), had contained four cryptanalytic units and two service units. It was in this Branch that the greatest expansion took place and the greatest amount of reorganization was necessary. It will serve no useful purpose to recount here the reasons which lay behind the changes which were made;<sup>20</sup> suffice it to state that, largely as a result of the successful entry made into the Japanese Military cryptography systems in the spring of 1943, the Cryptanalytic Branch was reorganized (1 September 1943) as follows:<sup>21</sup>

- B-1 Language Section [Japanese only]
- B-2 Military Cryptanalysis Section [Japanese only]
- B-3 General Cryptanalysis Section
- B-4 Tabulating Machinery Section

20. They are discussed in detail in volume Two, chapter I.

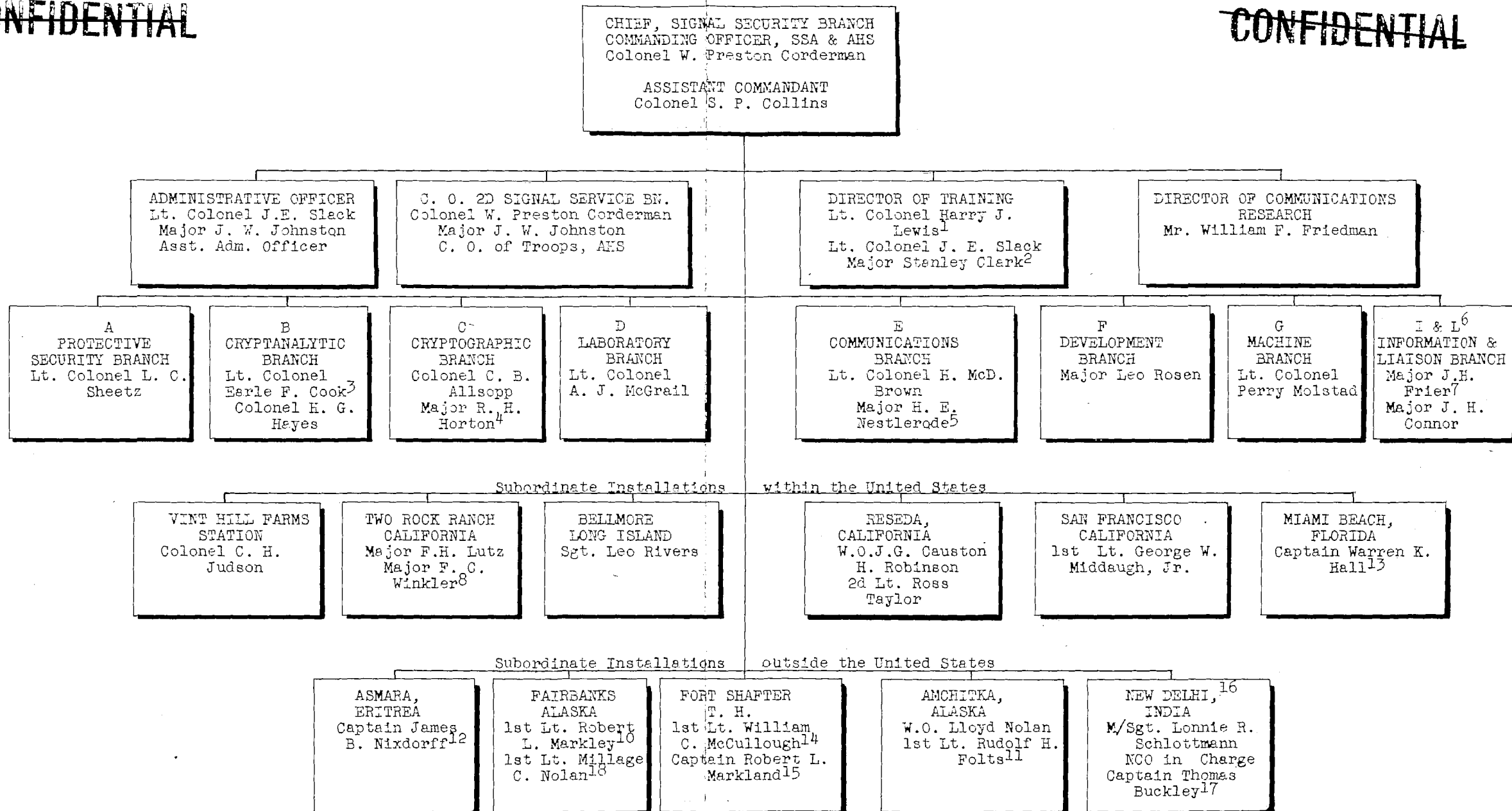
21. See volume Two, chapter I, section A, p. 10.

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1. Relieved per S.O. 100, par 5, 27 Apr 44.
2. Assigned per S.O. 126, par 2, 29 May 44 as 1st Director of Training.
3. Relieved per S.O. 78, par 9, 1 Apr 44.
4. Acting Chief during absence of Col. Allsopp in ETO, per S.O. 139, par 8, 13 Jun 44.
5. Acting Chief during absence of Lt. Col. Brown at CGSS, per S.O. 134, par 1, 7 Jun 44.
6. Created from I & L & Coordination Sections directed by Assistant Commandant.
7. From 1 Mar 44 to 28 Sep 44, when he went to CGSS, per S.O. 51, par 10, 1 Mar 44.
8. Assigned TRR, per S.O. 246, par 1, OCSigO, 26 Nov 43, eff. 1 Dec 43.
9. Transferred to SSA, 18 Jun 44.
10. Relieved per ACS S.O. 171, par 11, 19 Jun 44.
11. 1st Lt. Rudolf H. Folts assigned and joined from AHS per WD L.O. 25 May 44 assigned per ACS S.O., 20 Jun 44. Promoted to Capt. WD S.O. 234, par 15, effective 5 Oct 44.
12. Relieved per L.O. Hq Africa - Middle East 19 Nov 45.
13. Assigned per ASF S.O. 114, par 1, 22 Jun 44.
14. Assigned on secret orders to San Francisco POE 26 Dec 42; relieved from duty at Helemano, H.I. per L.O. AHS 6 Jul 44.
15. Assigned Fort Shafter 11 Apr 44; relieved per par 9 WD S.O. 270, 13 Nov 45, effective 14 Feb 46.
16. MS-8 inactivated 20 Nov 45.
17. Relieved M/Sgt Schlottmann 19 Jul 44 and served as Detachment Commander until 26 Nov 45.
18. Detachment Commander from 19 Sep 44. Relieved per par 10 S.O. 294, Hq 9427 TSU, SigC ACS 31 Oct 46.

SIGNAL SECURITY AGENCY  
1 March 1944 - 5 October 1944

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PLAN OF ORGANIZATION  
SIGNAL SECURITY AGENCY  
1 Mar 44 to 5 Oct 44

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The Information and Bulletin Subsection, the Document Subsection, and the Liaison Subsection of B-1 were transferred, prior to 29 August 1943, to Headquarters Branch as the Information and Liaison (I&L) Section (SPSIR) which, as we have seen (p.271) ultimately became (1 March 1944) the Information and Liaison Branch.

The designation "B-5" was for a time (February to August 1944) employed to denote a unit of Nisei located at Vint Hill Farm Station and employed in Japanese translations and a limited amount of crypt-analysis. In August 1944 this Nisei unit was subordinated to the Language Branch as B-I-5.

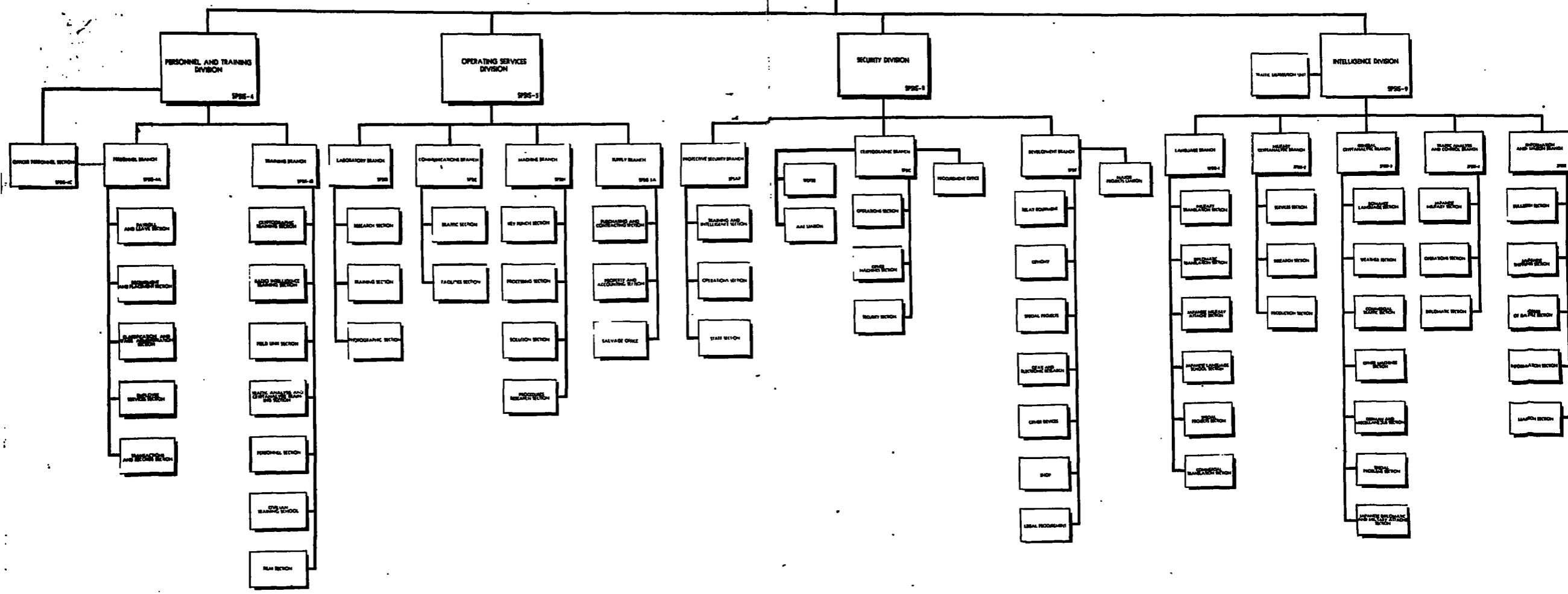
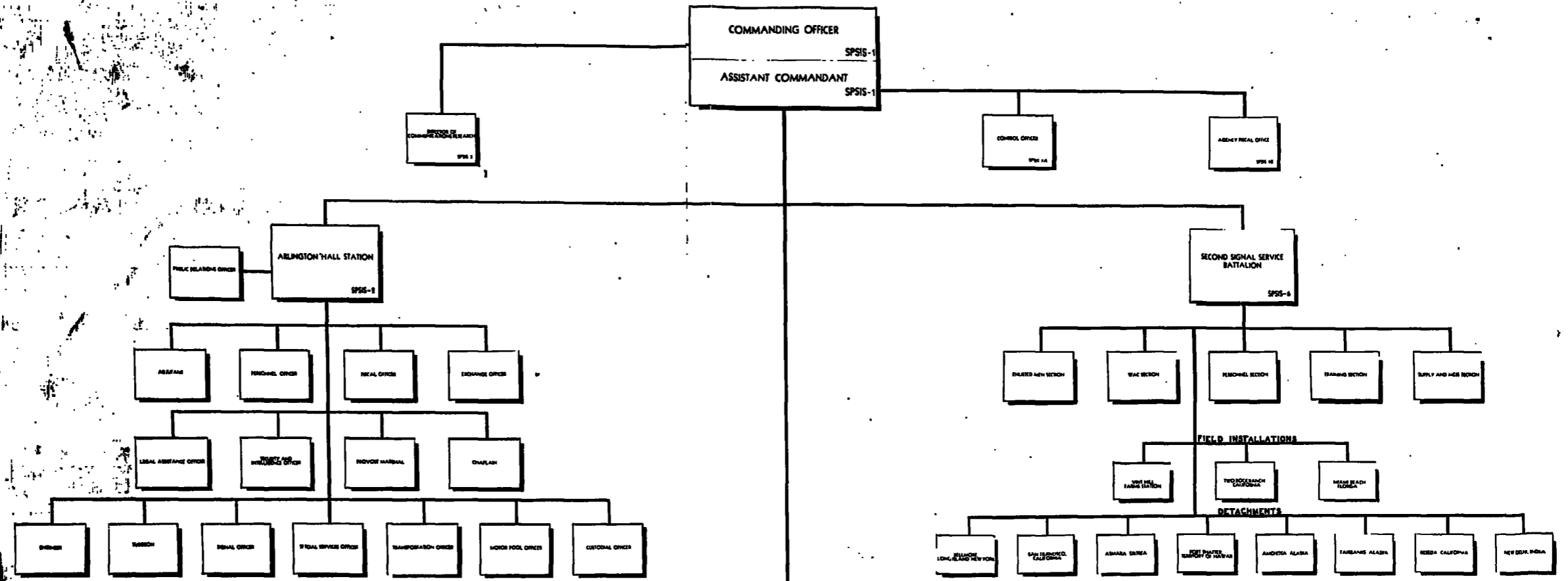
Reporting directly to the Chief, Signal Security Agency were a number of staff advisors. The first of these (established on 24 November 1942) was the Director of Communications Research.<sup>22</sup> After 26 March 1943 there was also a Director of Training,<sup>23</sup> whose principal function was the coordination of all training projects under the Chief, Signal Security Agency. The duties of this officer, however, were ultimately assigned to the Training Branch when that Branch was activated on 5 October 1944. This was merely

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22. From the establishment of the office till the present (March 1947) the Director of Communications Research has been Mr. William F. Friedman.

23. See volume Twelve, chapter II for details as to the situation which led to the creation of this office and the appointment of Major Frank B. Rowlett as first Director of Training.

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a change of name, not of function.

As a result of all these changes in the Agency, the following organization, as of 1 March 1944, had gradually developed:

- Administrative units (Arlington Hall Station, etc.)
- A. Protective Security Branch (SPSAP)
- B. Cryptanalytic Branch (SPSIB)
  - Language Section (SPSIB-1)
  - Military Cryptanalysis Section (SPSIB-2)
  - General Cryptanalysis Section (SPSIB-3)
  - Traffic Analysis and Control Section (SPSIB-4)
- C. Cryptographic Branch (SPSIC)
- D. Laboratory Branch (SPSID)
- E. Communications Branch (SPSIS)
- F. Development Branch (SPSIF)
- G. Machine Branch (SPSIN)
- Information and Liaison Branch (SPSIR)

It will be noted that in the list given above the only branch in which a breakdown into sections is shown is the Cryptanalytic Branch, which was by far the largest: indeed, each of its first four sections was as large or larger than most of the other branches, yet they were officially designated as sections. As a result, the Chief of the Cryptanalytic Branch was in direct control of the largest portion of the personnel on the Post. To correct this top-heavy situation, the Signal Security Agency was again reorganized (21 August 1944) on the basis of four divisions, as follows:

- Intelligence Division (SPSIS-9)
- Security Division (SPSIS-8)
- Operating Services Division (SPSIS-5)
- Personnel and Training Division (SPSIS-4)

All personnel not in one of these four divisions was assigned either to the Administrative Office, Arlington Hall Station, or to the Office

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PLAN OF ORGANIZATION  
SIGNAL SECURITY AGENCY

5 October 1944

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of the Commanding Officer, Signal Security Agency.

The Intelligence Division was composed of five new branches which were not, except in name, different from the sections of the former Cryptanalytic (B) Branch:

- Language Branch (SPSIB-1) [Japanese only]
- Military Cryptanalytic Branch (SPSIB-2) [Japanese only]
- General Cryptanalytic Branch (SPSIB-3)
- Traffic Analysis and Control Branch (SPSIB-4)
- Information and Liaison Branch (SPSIB)

The Security Division, somewhat smaller in number of component branches and much smaller in number of personnel, was comprised of three branches:

- Cryptographic Branch (SPSIC), after 1 April 1945 divided into:
  - Cryptographic Material Branch (SPSIC)
  - Communications Security Branch (SPSIS-3A)
- Protective Security Branch (SPSAP)
- Equipment Branch (SPSIF)

The Operating Services Division consisted of four branches:

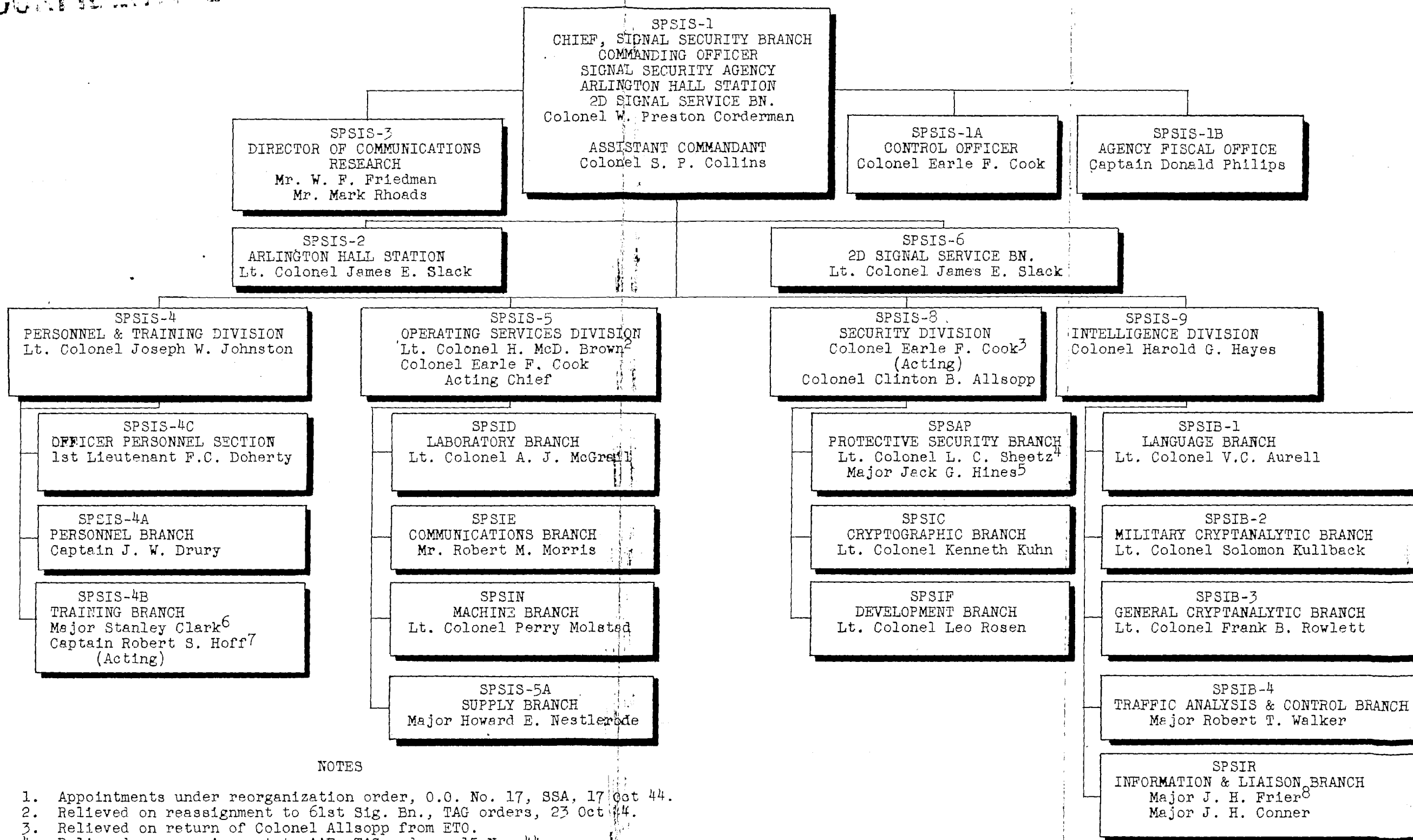
- Laboratory Branch (SPSID)
- Communications Branch (SPSIE)
- Machine Branch (SPSIN)
- Supply Branch (SPSIS-5A)

Each of these branches of the Operating Services Division performed services for both of the two divisions mentioned previously, though, to be sure, the Laboratory Branch in a sense performed independent functions as well, such as the preparation and detection of secret inks. The Supply Branch, which has not previously been mentioned, was newly formed by concentrating within a single branch supply functions which had previously been scattered. Yet not all the

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NOTES

1. Appointments under reorganization order, O.O. No. 17, SSA, 17 Oct 44.
2. Relieved on reassignment to 61st Sig. Bn., TAG orders, 23 Oct 44.
3. Relieved on return of Colonel Allsopp from ETO.
4. Relieved on reassignment to AAF, TAG orders, 15 Nov 44.
5. Named Branch Chief, 20 Oct 44.
6. Relieved per par 1, O.O. No. 7, 31 Jan 45.
7. Appointed Acting Chief per par. 2, O.O. No. 7, 31 Jan 45
8. Relieved on return from CGSS.

SIGNAL SECURITY AGENCY<sup>1</sup>  
5 October 1944 - 1 February 1945

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PLAN OF ORGANIZATION  
SIGNAL SECURITY AGENCY  
5 Oct 44 to 1 Feb 45





PLAN OF ORGANIZATION  
SIGNAL SECURITY AGENCY  
June 1945

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branches which could be called "operating services" branches were included in the Division of that name. The Information and Liaison Branch was assigned to the Intelligence Division and the Equipment Branch to the Security Division, despite the fact that both had functions which were actually operating services affecting more than one division. Yet each of these two branches performed most of its work for the division to which it was attached, and for this reason these branches were not made parts of the Operating Services Division.

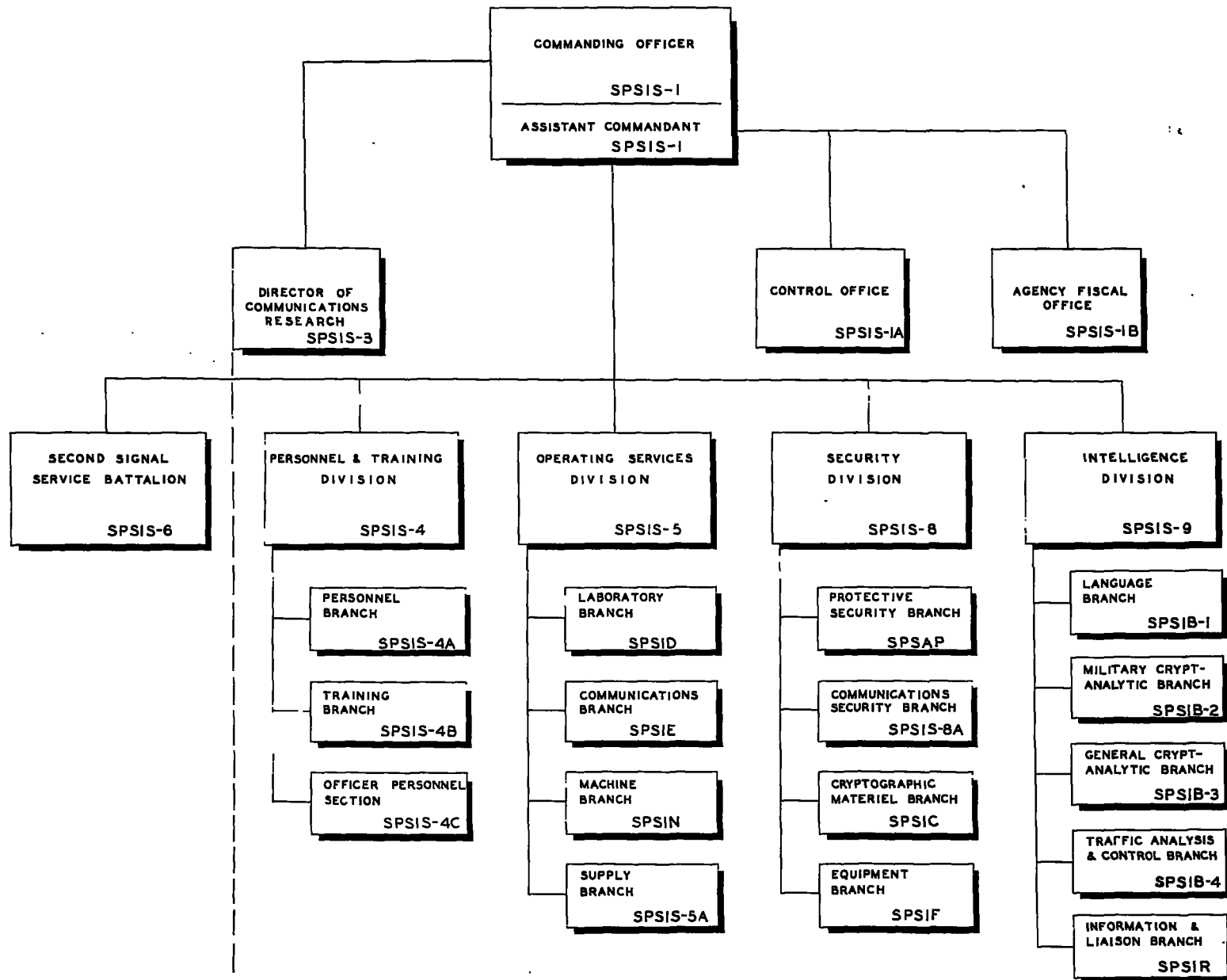
The fourth division was the Personnel and Training Division which contained only two branches:

Personnel Branch  
Training Branch

The Personnel Branch has been recently formed by amalgamating all the personnel units previously under the Administrative Officer.

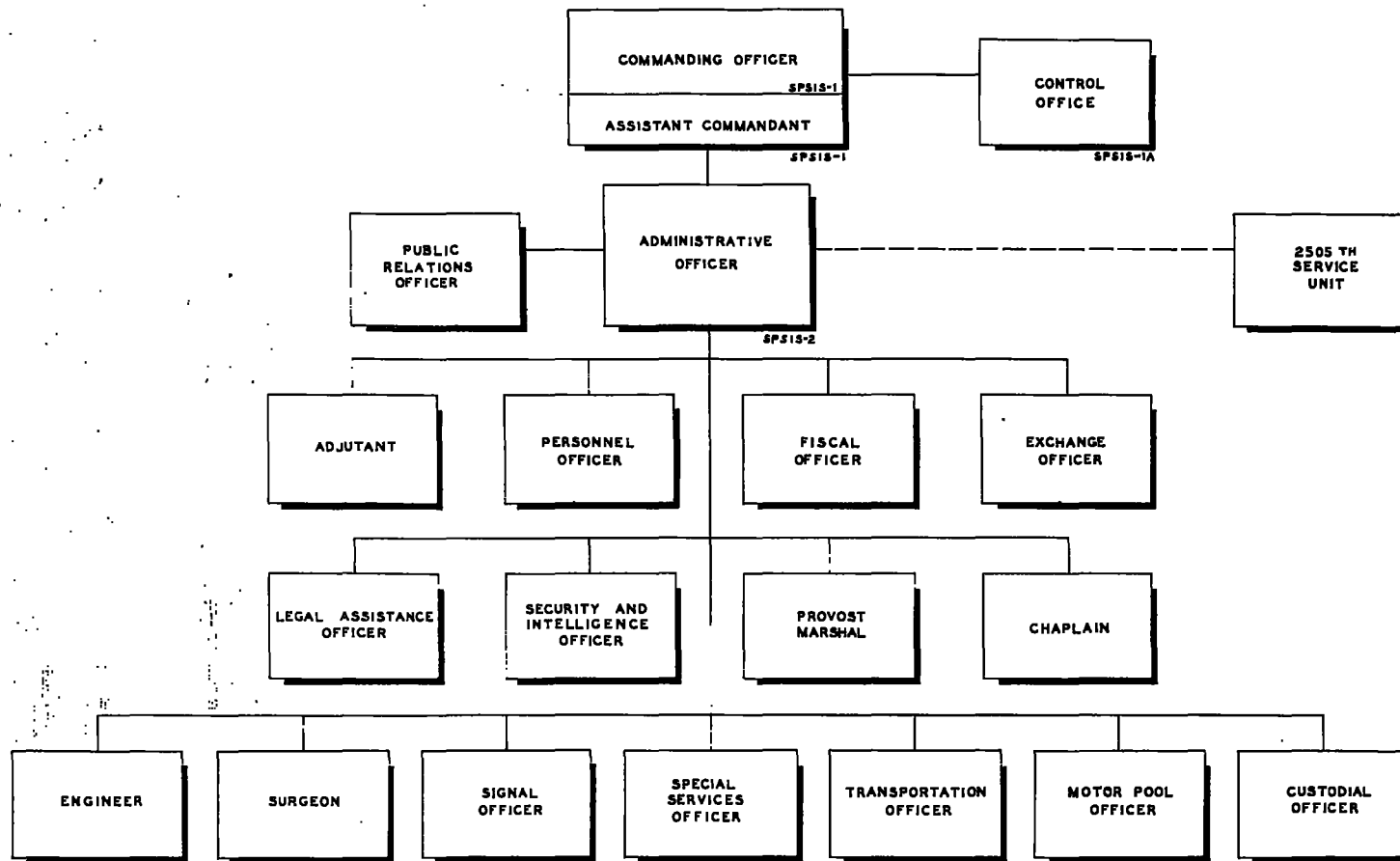
While the establishment of the divisional organization on 5 October 1944 did not result in completely equalizing the responsibilities of individual branch chiefs with regard to the number of personnel for which they were responsible, the new arrangement, which was definitely an improvement, continued to the end of the War. The branch chiefs were better able to control operations, and the Commanding Officer, having fewer persons reporting directly to him, was better able to direct the work of the Agency.

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SIGNAL SECURITY AGENCY

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1 June 1945  
ARLINGTON HALL STATION

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## CHAPTER I. THE CHAIN OF COMMAND

A. The Period November 1939 to 9 March 1942

During the first ten years of its existence the Signal Intelligence Service was a part of the War Plans and Training Division of the Office of the Chief Signal Officer. In an organization chart dated 9 November 1939<sup>24</sup> it is shown as being responsible to the Chief Signal Officer, Major General J.O. Mauborgne, who reported directly to the Chief of Staff.

## CHIEF OF STAFF

General George C. Marshall

↓  
CHIEF SIGNAL OFFICER

Major General J.O. Mauborgne

↓  
CHIEF, SIGNAL INTELLIGENCE SERVICE

Colonel S.B. Akin

25  
(Lt. Colonel Rex W. Minckler)

Under this relatively simple arrangement the SIS was more or less closely associated with the Chief Signal Officer. As the Office of the Chief Signal Officer was expanded, however, incident to its wartime commitments, this relationship was altered and the Signal

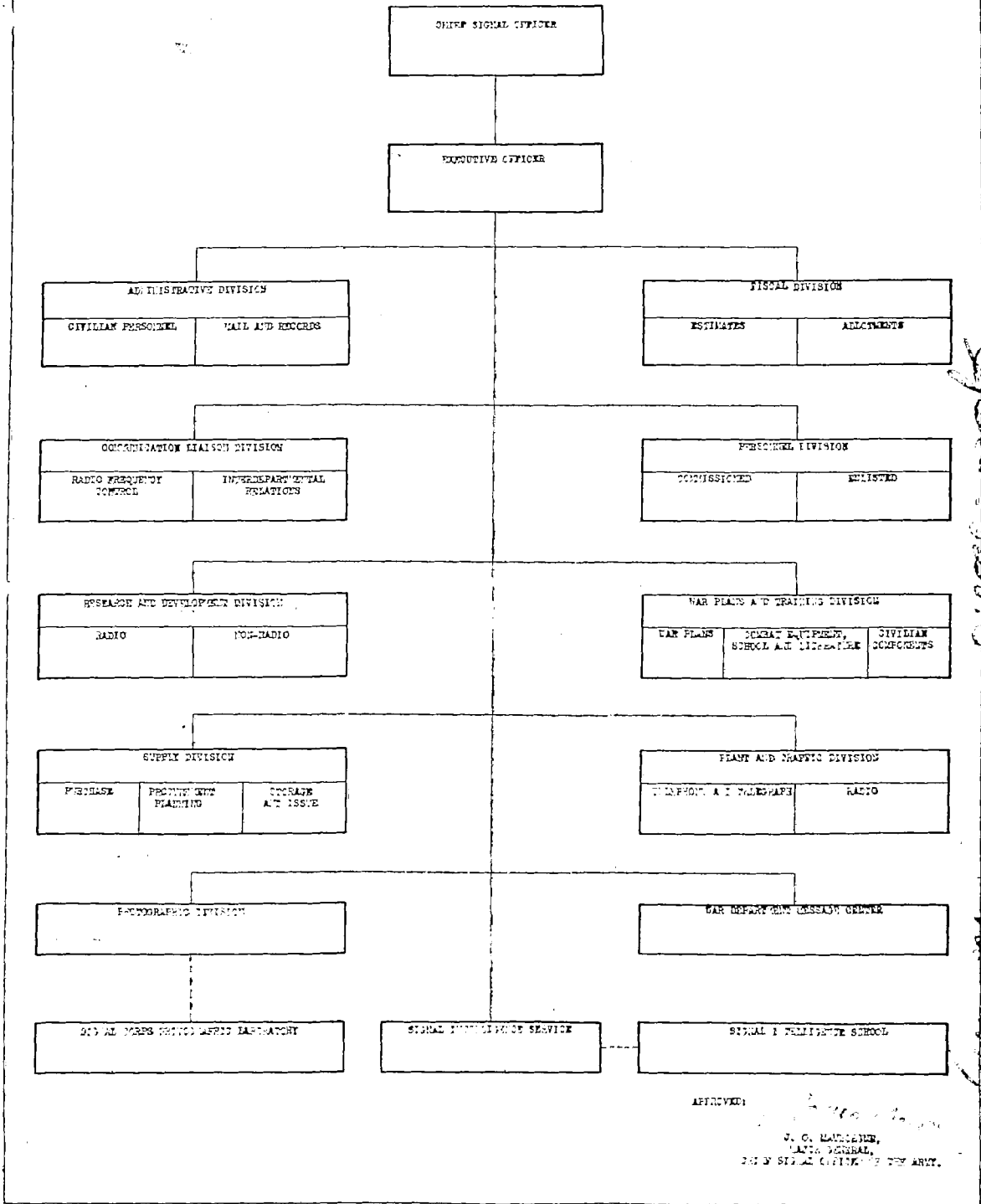
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24. Signal Corps Administrative Log 1939 to 1945, Chart 1

25. Colonel Minckler was Chief of the Signal Intelligence Service from 7 June 1941 to 13 April 1942, when he became Chief, Cryptographic Operations Branch, SIS and Chief, Cryptographic Training Branch, SIS. From 16 November 1942 to 17 June 1943 he was Director of Training AHS and VHFS and CO, VHFS.

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WAR DEPARTMENT  
 ORGANIZATION  
 OFFICE OF THE CHIEF SIGNAL OFFICER  
 November 9, 1939



APPROVED:

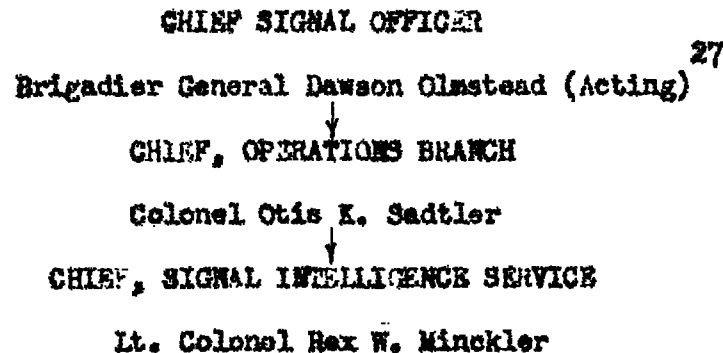
J. C. MADDERN,  
 MAJOR GENERAL,  
 CHIEF SIGNAL OFFICER, U.S. ARMY.

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Intelligence Service, with ever increasing responsibilities, found itself in a lower and lower echelon position.

Thus, when the Office of the Chief Signal Officer was reorganized on 7 August 1941 into three Branches (Administrative, Materiel, and Operations), the Signal Intelligence Service was made subordinate to the Operations Branch under Colonel Otis K. Sadtler.<sup>26</sup>



Colonel Sadtler, on 1 January 1942, became Chief of the newly created Army Communications Branch<sup>28</sup> and the Signal Intelligence Service was removed from the Operations Branch and placed under the Army Communications Branch.<sup>29</sup> The chain of command was not greatly affected.

- 
26. Colonel Sadtler was assigned Chief, Operations Branch, OCSigO on 12 August 1941. Signal Corps Administrative Log, Chart 2
27. General Olmstead was Chief Signal Officer from October 1941 to June 1943.
28. Later (22 June to 30 September 1942) a service, and still later a division of OCSigO. See Signal Corps Administrative Log, Chart 8.
29. It will be noted that the Signal Intelligence Service was transferred along with the chief of the echelon to which the SIS belonged. This practice was frequently followed in the SIS itself.

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SIGNAL CORPS UNITS

10 October 1941

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X

The Chain of Command

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## CHIEF SIGNAL OFFICER

Major General Dawson Olmstead

CHIEF, ARMY COMMUNICATIONS BRANCH

Colonel Otis K. Sadtler

30

Brigadier General Frank E. Stoner

CHIEF, SIGNAL INTELLIGENCE SERVICE

Lt. Colonel Rex W. Minckler

B. Changes Incident to Reorganization of the Army,  
2 March 1942

31

A reorganization of the Army on 9 March 1942 resulted in the subordination of the Office of the Chief Signal Officer to the newly established Services of Supply and in a reorganization of the OCSigO into five branches. The Signal Intelligence Service, as a part of the Army Communications Branch, was grouped with the various other divisions of the Army Communications Branch and with the Materiel Branch under what was known as the Supply Service of OCSigO. The Operations Branch and the Communication Coordination Branch of the OCSigO were placed under the Chief of Field Service.

- 
30. General Stoner was assigned as Chief, Army Communications Branch 25 February 1942. He was relieved as Chief, Army Communications Division 2 March 1943 to become Chief, Signal Operating Services.
31. By Executive Order of the President, dated 2 March 1942.
32. Signal Corps Administrative Log, Chart 14.

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The new chain of command removed the Signal Intelligence Service another echelon from the Chief Signal Officer.

## CHIEF OF STAFF

General George C. Marshall

↓  
COMMANDING GENERAL, SERVICES OF SUPPLY

Major General Brehon D. Somervell

↓  
CHIEF SIGNAL OFFICER

Major General Dawson Olmstead

↓  
CHIEF, SUPPLY SERVICEBrigadier General Roger B. Colton<sup>33</sup>↓  
CHIEF, ARMY COMMUNICATIONS BRANCH

Brigadier General Frank E. Stoner

↓  
CHIEF, SIGNAL INTELLIGENCE SERVICE

Lt. Colonel Rex W. Minckler

↓  
(Colonel Frank W. Bullock)<sup>34</sup>

C. Changes Incident to Reorganization of OCSigO  
22 June 1942

On 22 June 1942 the Signal Corps was again reorganized and the number of "services" was increased from two (Field and Supply) to four (Signal Supply, Army Pictorial, Army Communications, and Signal

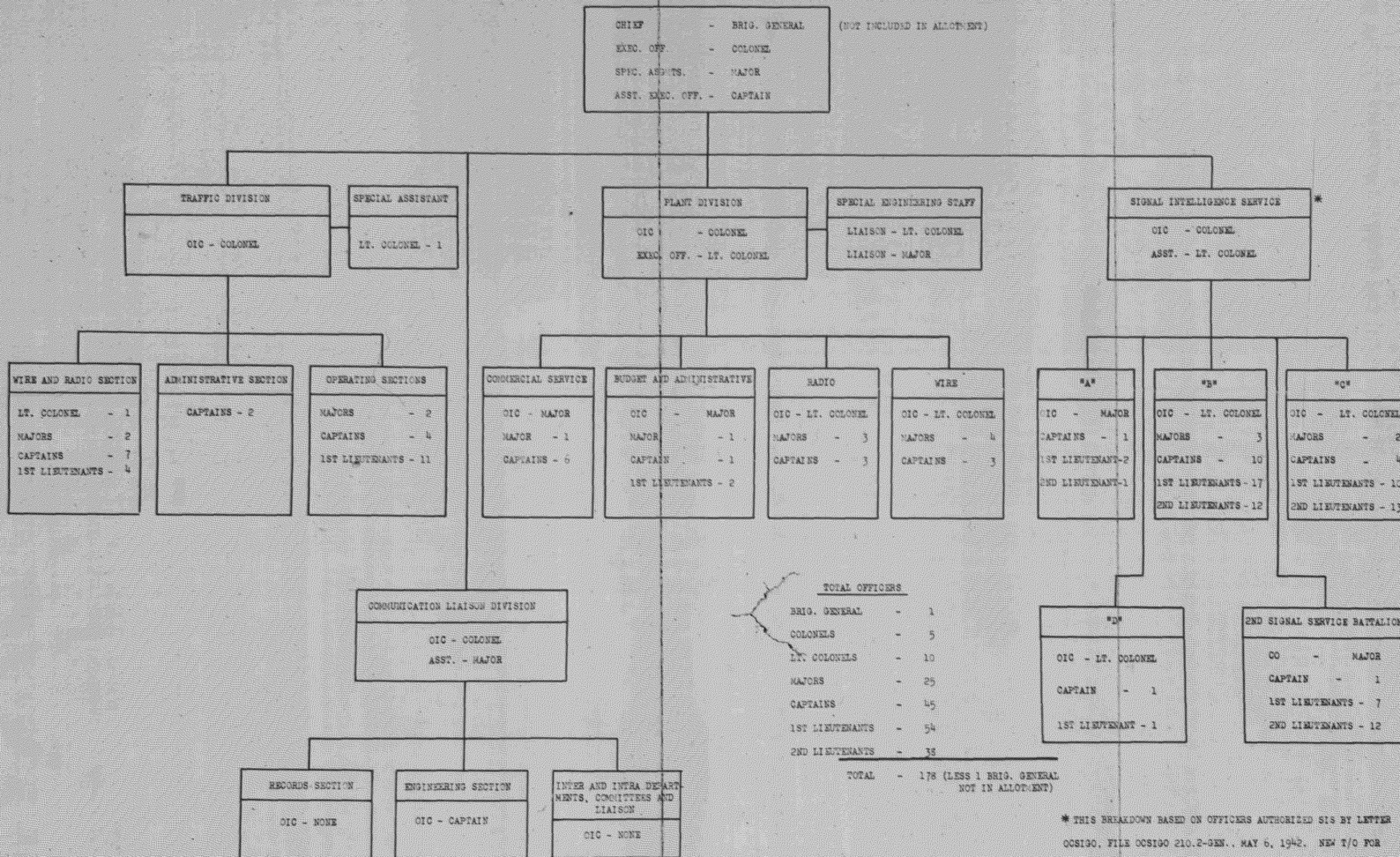
33. General Colton was designated Chief, Supply Service, OCSigO 7 March 1942.

34. Colonel Bullock, designated Officer in Charge, Signal Intelligence Service on 2 May 1942, served as such until 1 February 1943.

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1 June 1942

# ARMY COMMUNICATIONS BRANCH



TOTAL OFFICERS	
BRIG. GENERAL	- 1
COLONELS	- 5
LT. COLONELS	- 10
MAJORS	- 25
CAPTAINS	- 45
1ST LIEUTENANTS	- 54
2ND LIEUTENANTS	- 35
<b>TOTAL</b>	<b>- 178 (LESS 1 BRIG. GENERAL NOT IN ALLOTMENT)</b>

\* THIS BREAKDOWN BASED ON OFFICERS AUTHORIZED SIS BY LETTER OCS130, FILE OCS130 210.2-GEN., MAY 6, 1942. NEW T/O FOR EXPANSION NOW UNDER PREPARATION. RECOMMENDATIONS FOR INCREASE OF OFFICERS TO MEET THIS EXPANSION WILL BE SUBMITTED AT THE EARLIEST POSSIBLE DATE.

ARMY COMMUNICATIONS BRANCH

1 June 1942

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Operations).<sup>35</sup> At this time the next lower echelon was designated a "division," and the echelon next below the division was designated a "branch." The Signal Intelligence Service thus became the Signal Security Division<sup>36</sup> under the Director, Army Communications Service. The chain of command at this time (22 June 1942) was as follows:

## CHIEF SIGNAL OFFICER

Major General Dawson Olmstead



DIRECTOR, ARMY COMMUNICATIONS SERVICE

Brigadier General Frank E. Stoner



CHIEF, SIGNAL SECURITY DIVISION

Colonel Frank W. Bullock

Lt. Colonel Minckler served for a time under Colonel Bullock as Chief, Cryptographic Training Branch, SSB and as Chief, Operations Branch, SSD.

D. Changes Incident to reorganization OCSigO  
30 September 1942

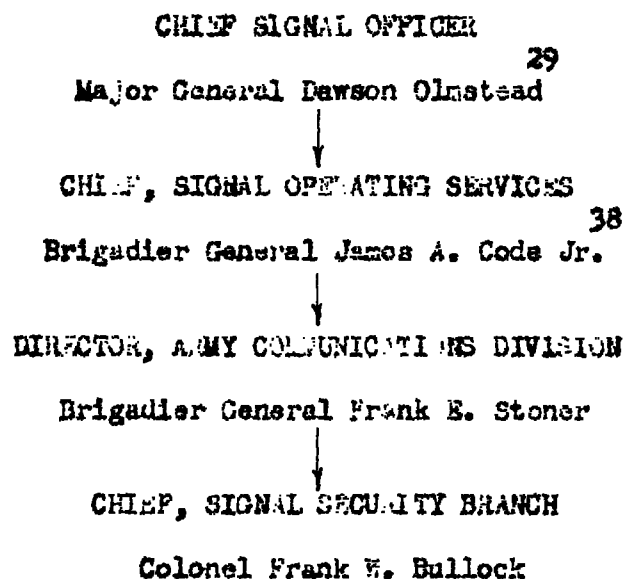
The Office of the Chief Signal Officer was reorganized again on September 1942 into six Divisions, two of which (Material, and Research and Development) were placed under the Chief, Signal Supply Services,

- 
35. On 30 March 1942 the designation Chief, Field Service and Chief, Supply Service was changed to Director, Field Service and Director, Supply Service. The designation "Director" was continued and applied to the OIC of each of the five services. See Signal Corps Administrative Log, Chart 17.
36. Also designated at one time during the adjustment period following the 22 June reorganization of the OCSigO as Signal Intelligence Service Division. See Signal Corps Administrative Log, Chart 17b.

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and three of which (Army Victorial, Signal Troops, and Army Communications) were placed under the Chief, Signal Operating Services.<sup>37</sup> Since the Signal Security Division was to become a part of the Army Communications Division, it was redesignated the Signal Security Branch.



A modification of this plan of organization on 7 January 1943<sup>39</sup> put the Signal Security Division under the Office of the Chief Engineer, OCCigO, as shown in the following:

- 
37. The Administrative Division was separate. The heads of the divisions were designated "Director". See Signal Corps Administrative Log, Chart 18.
38. General Code was designated Chief, Signal Operating Services, OCCigO 24 August 1942.
39. See Signal Corps Administrative Log, Charts 20 and 21.

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The Chain of Command

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DIRECTOR, ARMY COMMUNICATIONS DIVISION

Brigadier General Frank E. Stoner



OFFICE OF THE CHIEF ENGINEER

Colonel F.C. Henry



SIGNAL SECURITY BRANCH

Colonel Frank W. Bullock

(Colonel W. Preston Corderman)<sup>40</sup>

E. Changes Incident to reorganization of OCSigO  
2 March 1943

On 2 March 1943 Brigadier General Stoner was made Chief, Signal Operating Services, vice Major General Code, who was promoted to Assistant Chief Signal Officer. A Signal Security Division was established as one of four divisions subordinate to the Chief, Signal Operating Services. The former Signal Security Branch, which from 1 February 1943 had been under Colonel Corderman, was now renamed the Signal Security Service and attached to the Signal Control Section<sup>41</sup> of the Signal Security Division. The chain of command was as follows:

- 
40. Colonel Corderman was designated as Chief, Signal Security Branch on 1 February 1943. He was relieved for overseas duty on 31 March 1946, when Colonel Harold G. Hayes was made Chief of the Agency.
41. As no one was available to become Director of the Signal Security Division, the division consisted of Colonel Corderman, who acted as Director in addition to his other duties, and a letterhead. See Signal Corps Administrative Log, Chart 21.

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The Chain of Command

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## CHIEF SIGNAL OFFICER

Major General Dawson Olmstead



## CHIEF, SIGNAL OPERATING SERVICES

Brigadier General Frank E. Stoner

DIRECTOR, SIGNAL SECURITY DIVISION<sup>42</sup>

## SECURITY CONTROL SECTION



## SIGNAL SECURITY SERVICE

Colonel W. Preston Corderman

F. Changes Brought About under General Ingles

Major General Harry C. Ingles became Chief Signal Officer on 1 July 1943 and the Office of the Chief Signal Officer was reorganized according to a plan of organization adopted on that date into Staff Divisions, Operating Services, and Field Activities. Thus the Signal Security Agency (formerly the Signal Security Service) was designated a Field Activity under the Army Communications Service (an Operating Service). There was also a Signal Security Branch,<sup>43</sup> to which no one was ever assigned. The chain of command was as follows:

---

42. Both the SSD and the SCS were set up apparently solely for administrative purposes, and Colonel Corderman reported directly to General Stoner.

43. The functions of the SSB were carried out by the Chief, Signal Security Agency.

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The Chain of Command

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## CHIEF OF STAFF

General George C. Marshall

COMANDING GENERAL, ARMY SERVICE FORCES<sup>44</sup>

Lt. General Brehon D. Somervell

CHIEF SIGNAL OFFICER

Major General Harry C. Ingles

CHIEF, ARMY COMMUNICATIONS SERVICE

Brigadier General Frank E. Stoner

SIGNAL SECURITY BRANCH

CHIEF, SIGNAL SECURITY AGENCY<sup>45</sup>Colonel W. Preston Corderman<sup>46</sup>

Thus, during the early part of the Fiscal Year 1943, the organization of the Office of the Chief Signal Officer became stabilized and the chain of command remained unchanged up to the time (15 September 1945) when the Signal Security Agency was transferred from the Signal Corps to become the Army Security Agency under the Assistant Chief of Staff, G-2.

- 
44. The Services of Supply was, on 12 March 1943, redesignated the Army Service Forces, which later (11 June 1946) became the Services of Supply and Procurement.
45. The Signal Security Service was redesignated the Signal Security Agency by OCSigO Office Memo No. 73, 9 July 1943.
46. Colonel Corderman became a Brigadier General 18 June 1945.

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CHAPTER XI. THE VALUE AND THE COST

In the preceding chapter of this History of the Signal Security Agency in World War II we have attempted to review the administrative actions which led to the successful fulfillment of the twofold primary mission of the Agency, namely:

a. The preservation of the security of U. S. Army communications, and

b. The production of intelligence from the intercepted communications of foreign governments, both hostile and friendly.

The value of this work will be described and assessed in specific detail in the remaining twelve volumes of this series. Here, however, some attempt should be made to provide a general evaluation of the effort as a whole. It can be said without fear of contradiction that the Agency, working constantly in collaboration with corresponding agencies in the sister services of the United States and to a more limited extent with those of the allied governments of the British commonwealth, achieved unprecedented success in reaching the goal set before it. Despite the seemingly insurmountable difficulties inherent in the general nature of signal communications per se and the obstacles, cunningly devised by countless workers in similar agencies maintained by foreign governments, both of the Axis as well as on neutral nations, the effect of the work of this Agency and its collaborators was to preserve the integrity of U. S. Army communications from potential cryptanalytic attack on the one hand and to produce an immense amount of highly valuable intelligence useful to our commanders in both strategic and tactical

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operations.

Though the fact that the imperative secrecy of such operations as these prevents giving to the general public complete information concerning successes and thus tends to reduce the amount of praise which can be found in pronouncements of outsiders, it is yet possible to present a certain amount of unprejudiced evaluation coming from those in a position really to know the value of the product.

For example, testimony as to the value of the Signal intelligence produced largely through the efforts of the Signal Security Agency before and during World War II, can be found in the remarkable letters of General George C. Marshall to Governor Thomas E. Dewey dated 25 and 27 September 1944, in which he said:<sup>1</sup>

1. As a comment on the President's reaction to General Marshall's approach to Governor Dewey, the following passage taken from the book by Robert M. Sherwood, Roosevelt and Hopkins (New York 1948), p. 827, is of interest:

During the latter part of October, Hopkins heard from General Marshall the amazing story of how someone, apparently in the armed services, had imparted to Dewey the fact that the United States had broken the Japanese codes before Pearl Harbor, and of Marshall's urgent message to Dewey that the revelation of this fact would be calamitous. Hopkins wrote of this:

Later that day I repeated this conversation to the President. The President was surprised at the action Marshall had taken but expressed no criticism of that action. He merely stated that he felt confident that Governor Dewey would not, for political purposes, give secret and vital information to the enemy. His only other further comments were: "My opponent must be pretty desperate if he is even thinking of using material like this which would be bound to react against him." The President wondered what officer or government official had been so faithless to his country as to give Governor Dewey the information. To the best of my knowledge the government never discovered who gave Governor Dewey this military information.

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The Value and the Cost

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. . .the Battle of the Coral Sea was based on deciphered messages and therefore our few ships were in the right place at the right time. Further, we were able to concentrate our limited forces to meet their [Japanese] advances on Midway when otherwise we almost certainly would have been some 3,000 miles out of place.

We had full information of the strength of their forces in that advance and also of the smaller force directed against the Aleutians which finally landed troops on Attu and Kiska.

Operations in the Pacific are largely guided by the information we obtain of Japanese deployments. We know their strength in various garrisons, the rations and other stores continuing available to them, and what is of vast importance, we check their fleet movements and the movements of their convoys.

The heavy losses reported from time to time which they sustain by reason of our submarine action largely results from the fact that we know the sailing dates and the routes of their convoys and can notify our submarines to lie in wait at the proper point.

The current raids by Admiral Halsey's carrier forces on Japanese shipping in Manila Bay and elsewhere were largely based in timing on the known movements of Japanese convoys, two of which were caught, as anticipated, in his destructive attacks . . .

. . .The conduct of General Eisenhower's campaign and of all operations in the Pacific are closely related in conception and timing to the information we secretly obtain through these intercepted codes. They contribute greatly to the victory and tremendously to the savings of American lives, both in the conduct of current operations and in looking toward the early termination of the war. . .

The following quotation is taken from page 31 of the Summary Report (Pacific War) of the United States Bombing Survey dated 1 July 1946:

In the field of operational intelligence considerable forward strides were made during the Pacific war. The requirements in this field for a large volume of detailed and accurate work, for complex analysis geared to rapidly changing capabilities of forces and weapons, and for speed, all place a heavy burden on training, competence and organization. These requirements were not fully met in the Pacific war; the deficiency was at times serious. This was in large measure traceable to a prewar lack of trained and competent operational intelligence officers to provide an adequate nucleus for an expanding organization.

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The basis for adequate intelligence can only be laid in peacetime. The solution to our problem in this field appears in part to be the greater centralization to be provided by the National Intelligence Authority, particularly in securing more adequate coordination and dissemination. It appears also to lie in close integration into the various operating organizations of appropriate intelligence units, adequate budgets and personnel for intelligence work, and a sufficient increase in the prestige attached to such work to attract the highest quality of personnel. This latter can only come from increased training in intelligence and active appreciation of its functions on the part of other Army, Navy, and Government officials. The present lack of recognized responsibility for intelligence work by the various operating organizations and the present shortage of trained and competent intelligence personnel give cause for alarm and require correction.

Intelligence: At the start of the Pacific war our strategic intelligence was highly inadequate, and our overall war plans, insofar as they were based on faulty information and faulty interpretation of accurate information, were unrealistic. After Pearl Harbor the obtaining and analysis of economic and industrial information necessary to the planning of an attack on Japan's sustaining resources required several years of the most strenuous effort and even then substantial gaps remained. If a comparable lack of intelligence should exist at the start of a future national emergency, it might prove disastrous.

The testimony of important and high ranking witnesses in the Hearings held by the Joint Congressional Committee on the Investigation of the Pearl Harbor Attack led the Majority in their report (p. 253) to characterize the signal intelligence produced by the Army and Navy as "some of the finest intelligence available in our history" and on page 232 of the same report to say:

The success achieved in reading the Japanese diplomatic codes merits the highest commendation and all witnesses familiar with Magic material throughout the war have testified that it contributed enormously to the defeat of the enemy, greatly shortening the war, and saving many thousands of lives.

The Assistant Chief of Staff, G-2, Major General Stephen Chamberlain, who served throughout the war in the Pacific as Assistant Chief of Staff,

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G-3 on General MacArthur's staff, on the occasion of a visit to Arlington Hall at the close of the war, was somewhat more specific as to the extent of this contribution, when he said:

The information G-2 gave G-3 in the Pacific Theater alone saved us many thousands of lives and shortened the war by no less than two years.

The information referred to consisted almost entirely of signal intelligence, produced in large measure from messages processed at the Signal Security Agency.

During the Fiscal Years 1945 and 1946 Congress appropriated for the entire Army expenditures the following sums:

Fiscal Year 1945	\$15,438,463,935
Fiscal Year 1946	<u>21,498,728,570</u>
	\$36,937,252,505

It is not possible to state precisely how much the Signal Security Agency spent in the same two years and for two reasons: (1) in accordance with Army regulations and procedures, elements of the Signal Security Agency made considerable use of their privilege of requisitioning from normal Army sources of supply items for which no dollar value is known, and (2) the cost of maintaining the overseas units of the Signal Security Agency was charged to the theaters of operation in which these units were stationed and not to the Signal Corps budget. For these two items in the total expenditures, therefore, no information is available and these items must be estimated on the most reliable basis possible. The expenditures were therefore as follows:

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Cash paid out including civilian payroll, purchases and contracts within the continental limits ....	\$23,947,358.16
Military payroll within the continental limits .....	8,862,119.90
Real estate including construction costs based on the assumption that the entire sum would be paid in four years time .....	3,125,000.00
Estimate of dollar value of requisitions .....	4,500,000.00
Estimate of dollar value of overseas requisitions....	5,000,000.00
Total NSA expenditures for Fiscal Years 1945-6.....	\$45,434,478.06

If these figures are reliable, and they are believed to be so, subject to the caveat expressed above, then of the \$36,937,252,505 spent by the Army in the Fiscal Years 1945 and 1946, the Signal Security Agency spent only \$45,434,478.06 which is one dollar for every \$812 spent by the entire Army, or, to put it in another way, 1.2 mills out of every dollar spent, or 0.12 per cent.

To return to General Chamberlin's statement quoted above, it is deemed unnecessary to labor the point that if the results indicated by him were achieved, the percentage of the total cost of the two final war years was exceedingly small for so tremendous a saving in lives and money.

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HISTORICAL NOTE

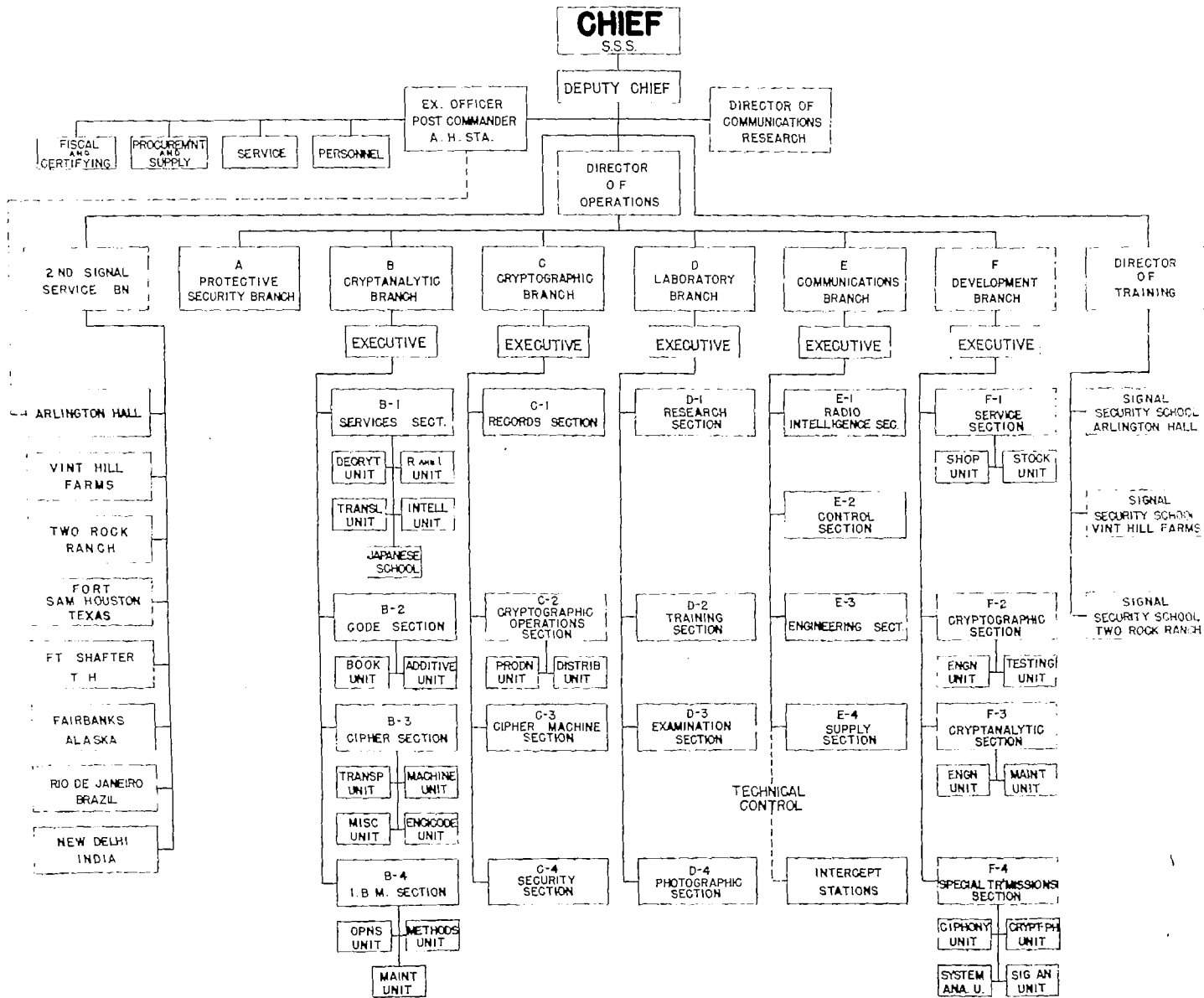
Paragraph 3 of the Minutes of the 10th Meeting of the Coordinating Committee of the Signal Security Service (9 March 1943) makes reference to the following charts as follows:

3. ORGANIZATION CHART, SIGNAL SECURITY SERVICE

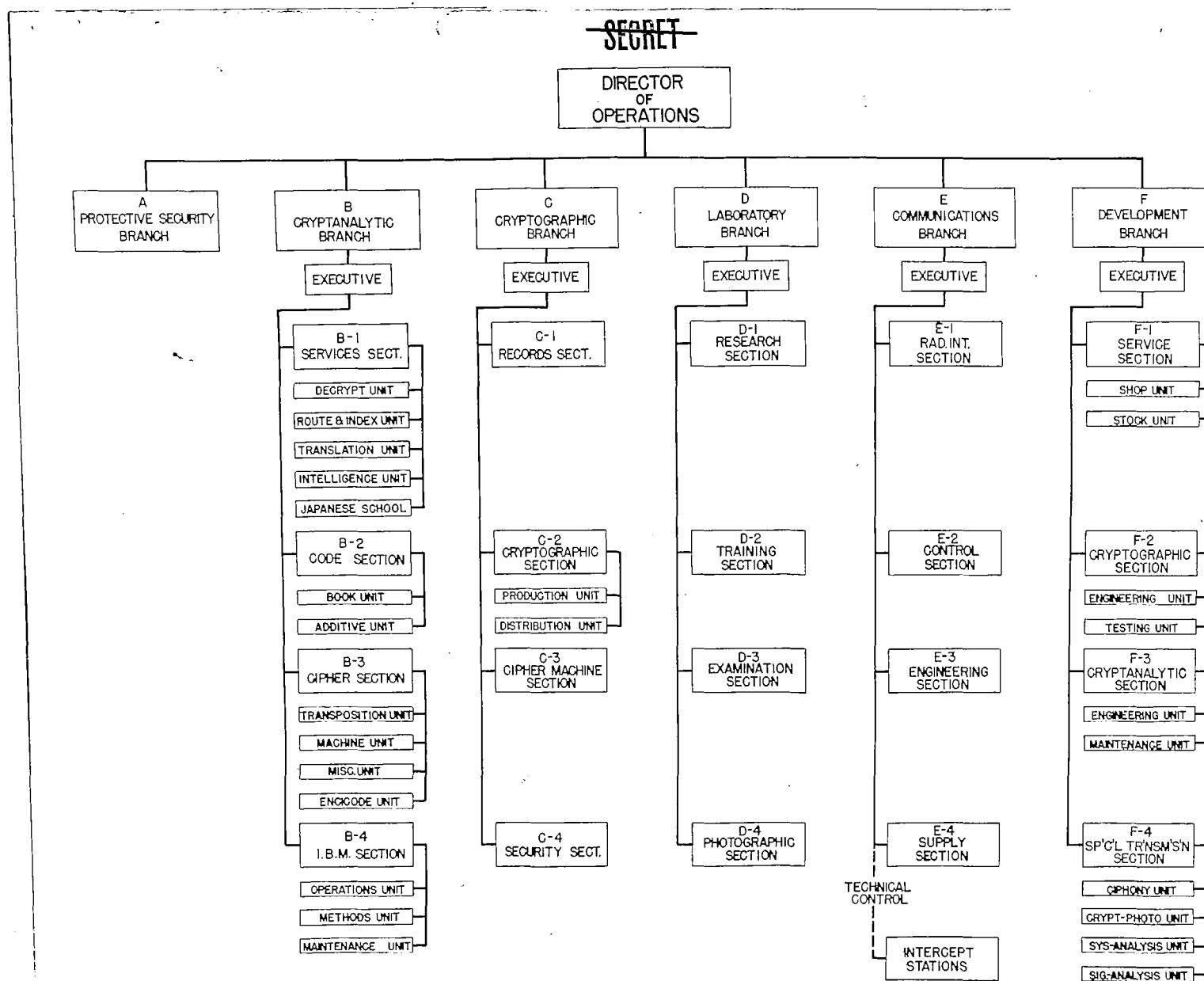
Changes were submitted from all sections on the organization chart of the Signal Security Service. The revised chart will be prepared and disseminated by the Executive Officer.

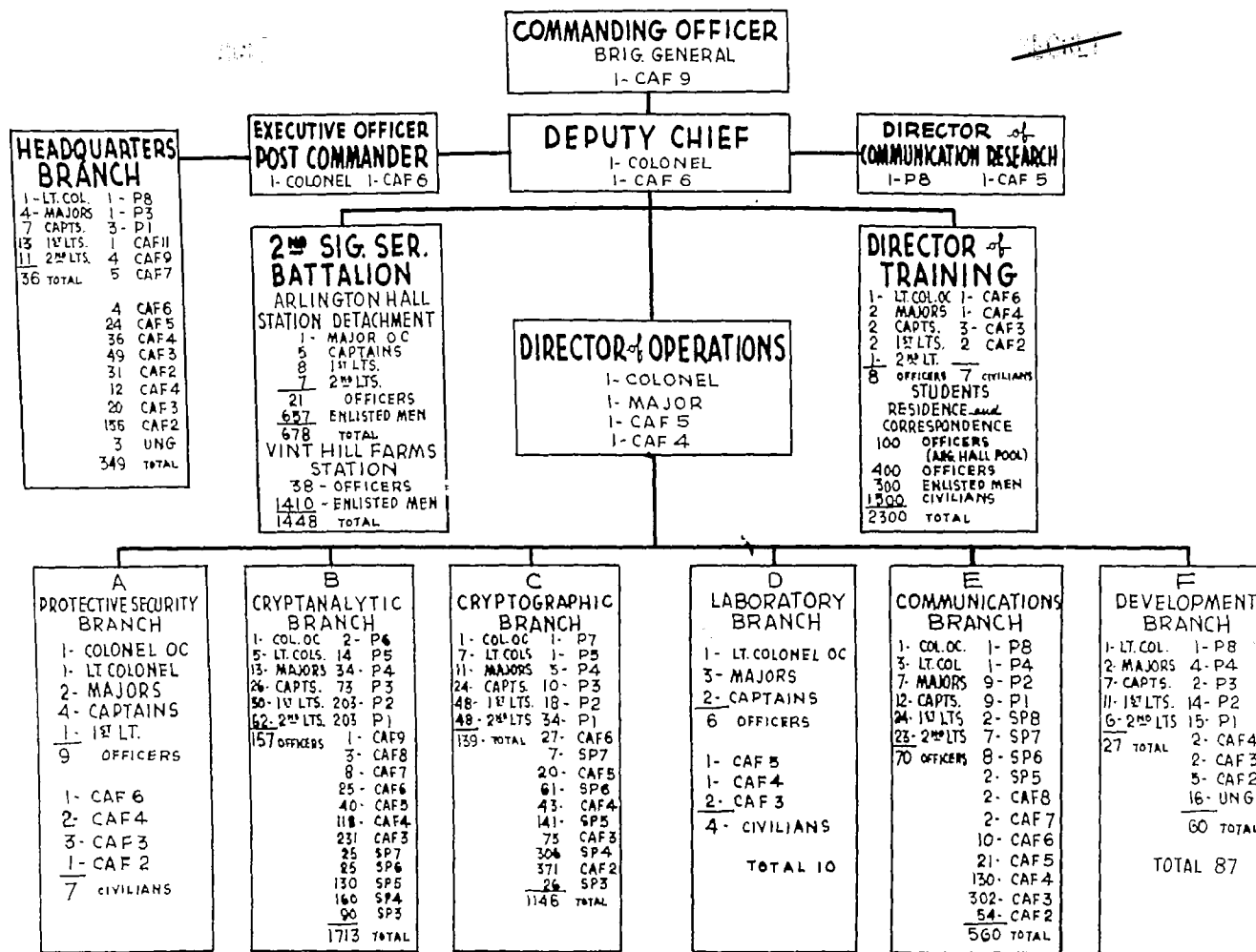
With the issuance in March 1943 of this chart, the sections were redesignated as branches.

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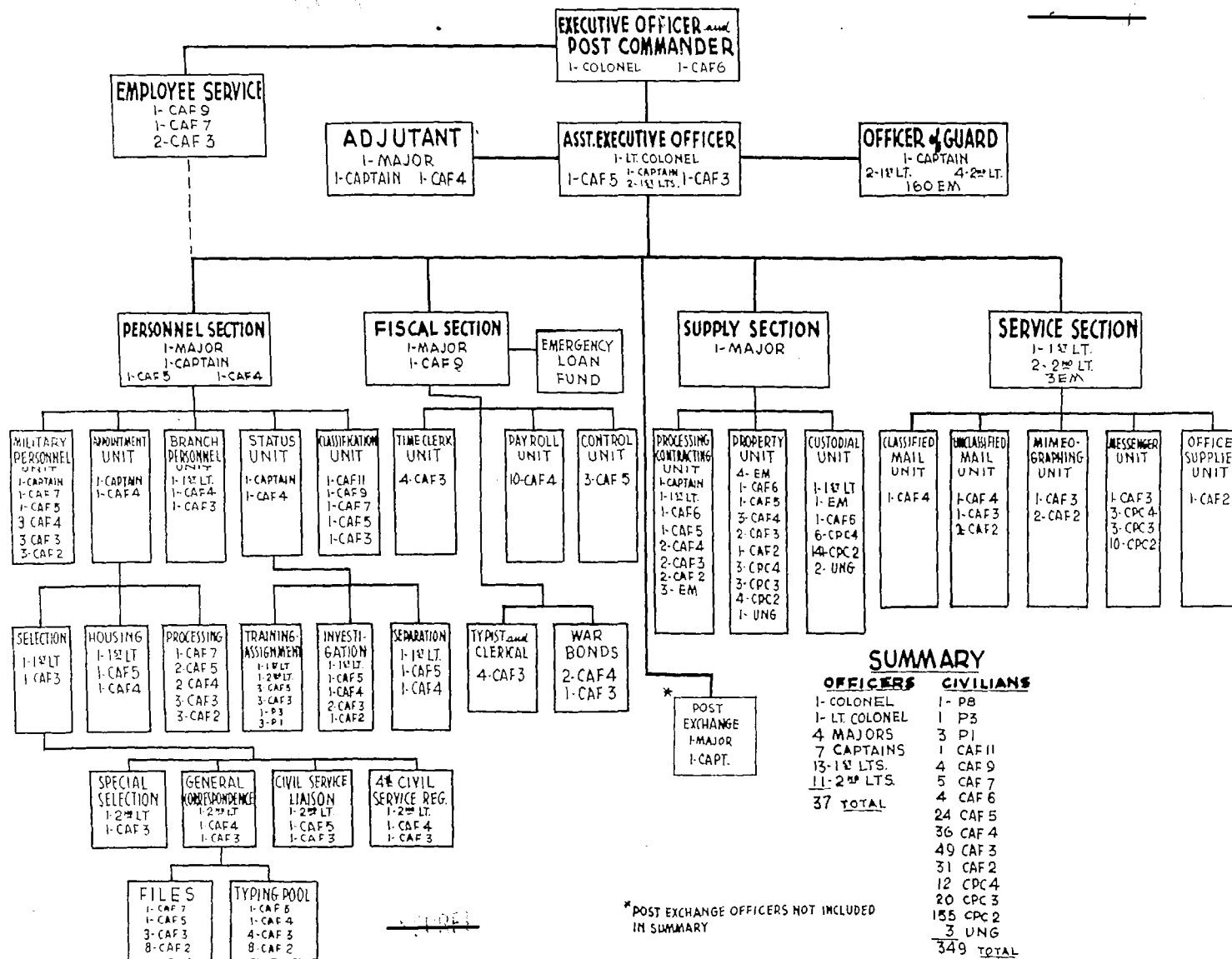


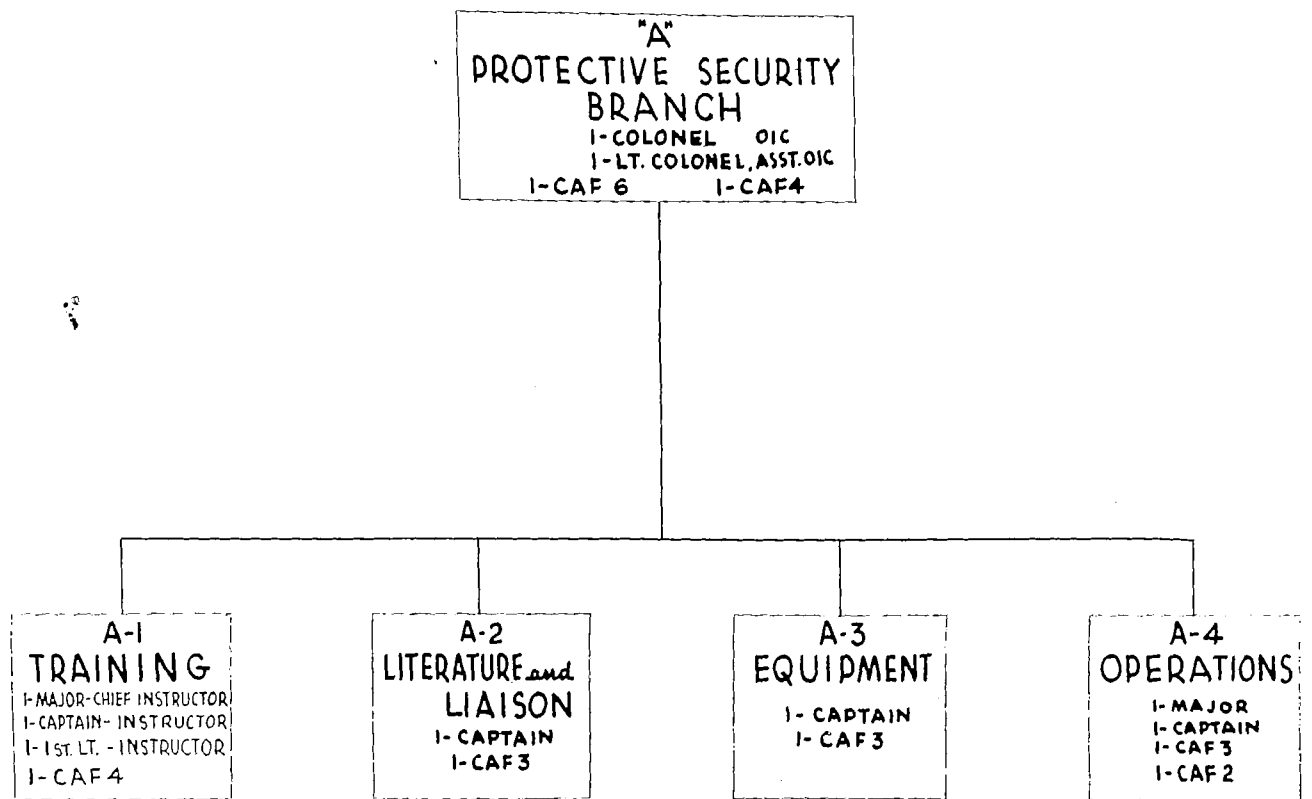
**\* SUMMARY of S. S. PERSONNEL**

	PROPOSED	PRESENT ALLOT.	NET INCREASE
BRIG. GENERAL		3	5
COLONELS	8		11
LT COLONELS	20		5
MAJORS	45	40	11
CAPTAINS	84	109	40
1 <sup>st</sup> LTS.	149	101	50
2 <sup>nd</sup> LTS.	151		
TOTAL OFFICERS	457	335	122
TOTAL CIVILIANS	3846		

\*PRESENT ALLOTMENT AUTHORIZED ON CIVILIAN STRENGTH OF 1057. PROPOSED STRENGTH 3846

\*INCLUDES NO 2<sup>nd</sup> SIG. SER. BN. PERSONNEL OR STUDENTS UNDER TRAINING SECTION.



~~SECRET~~~~SECRET~~**OFFICERS**

COLONEL	1
LT. COLONEL	1
MAJOR	2
CAPTAIN	4
1 ST. LT.	1
<b>TOTAL</b>	<b>9</b>

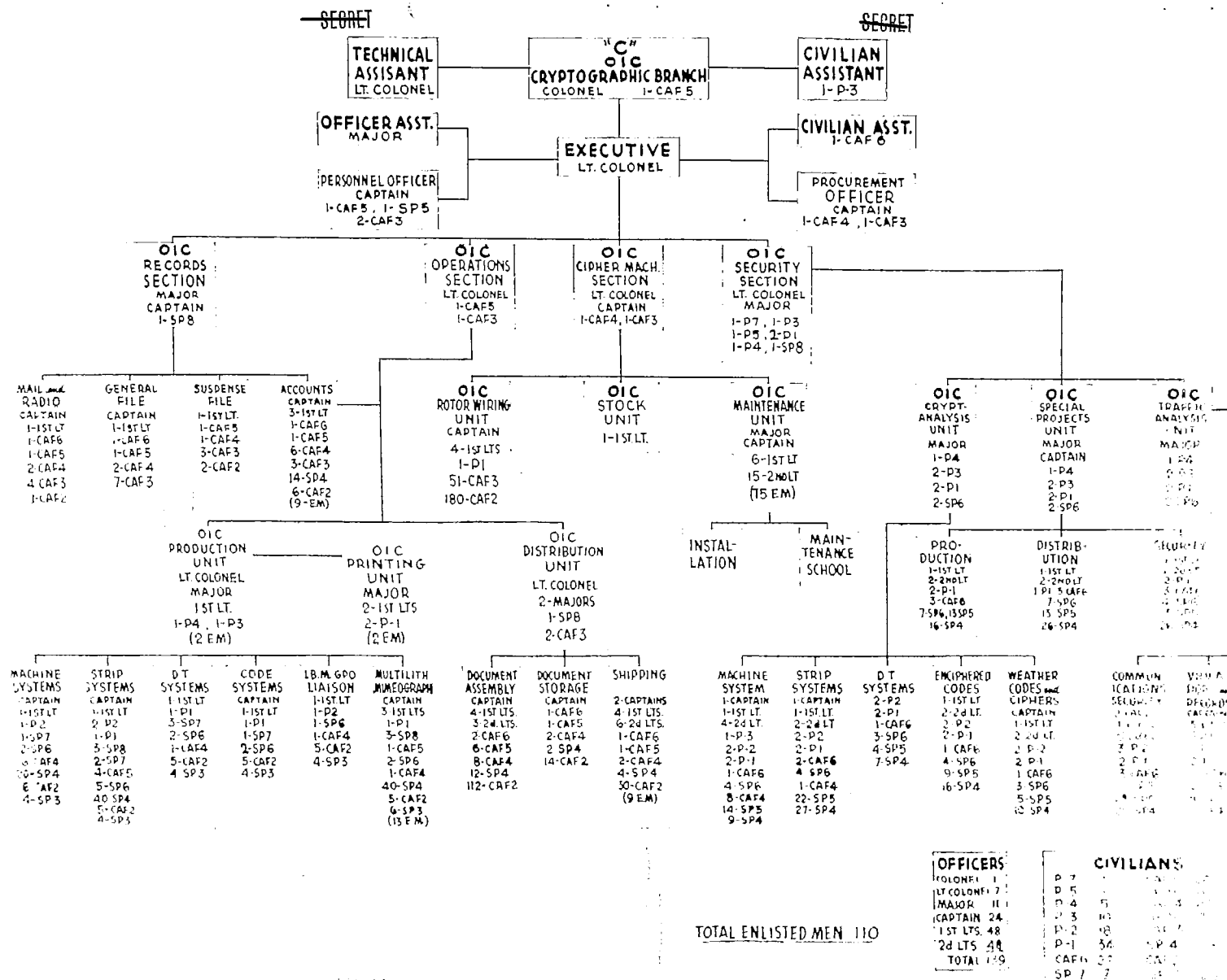
**CIVILIANS**

CAF 6	1
CAF 4	2
CAF 3	3
CAF 2	1
<b>TOTAL</b>	<b>7</b>

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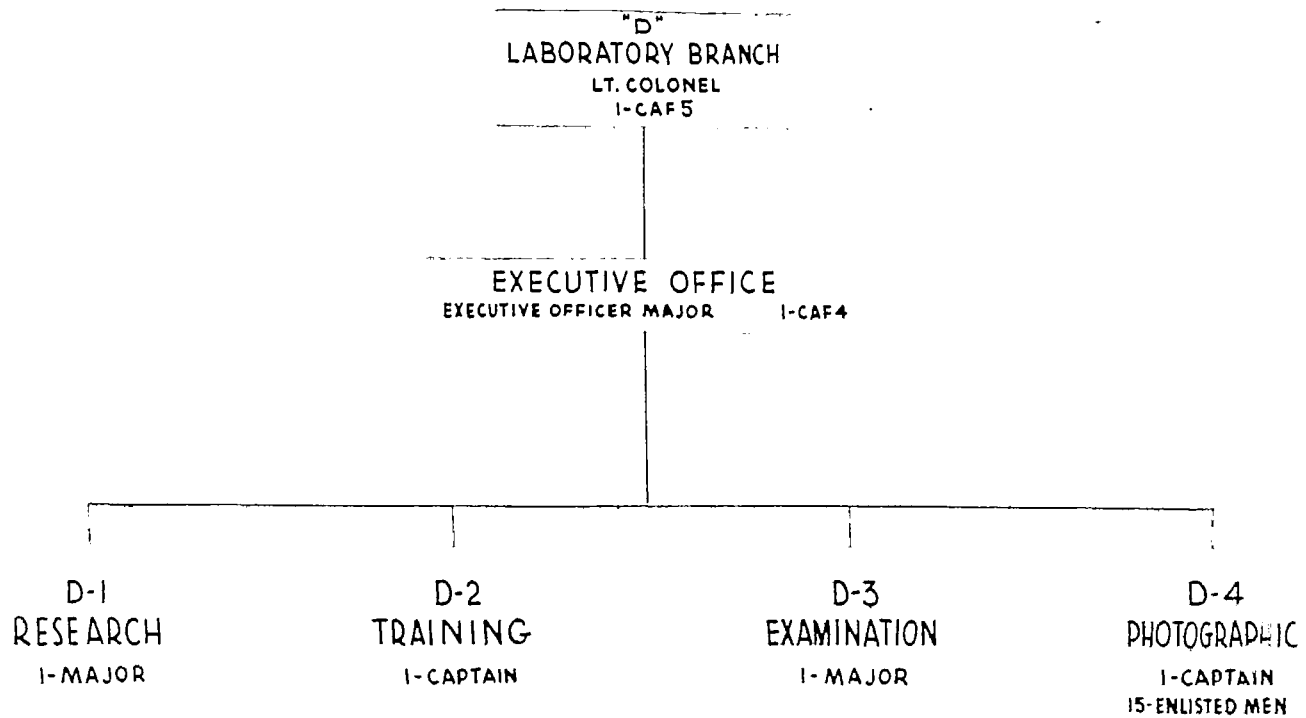






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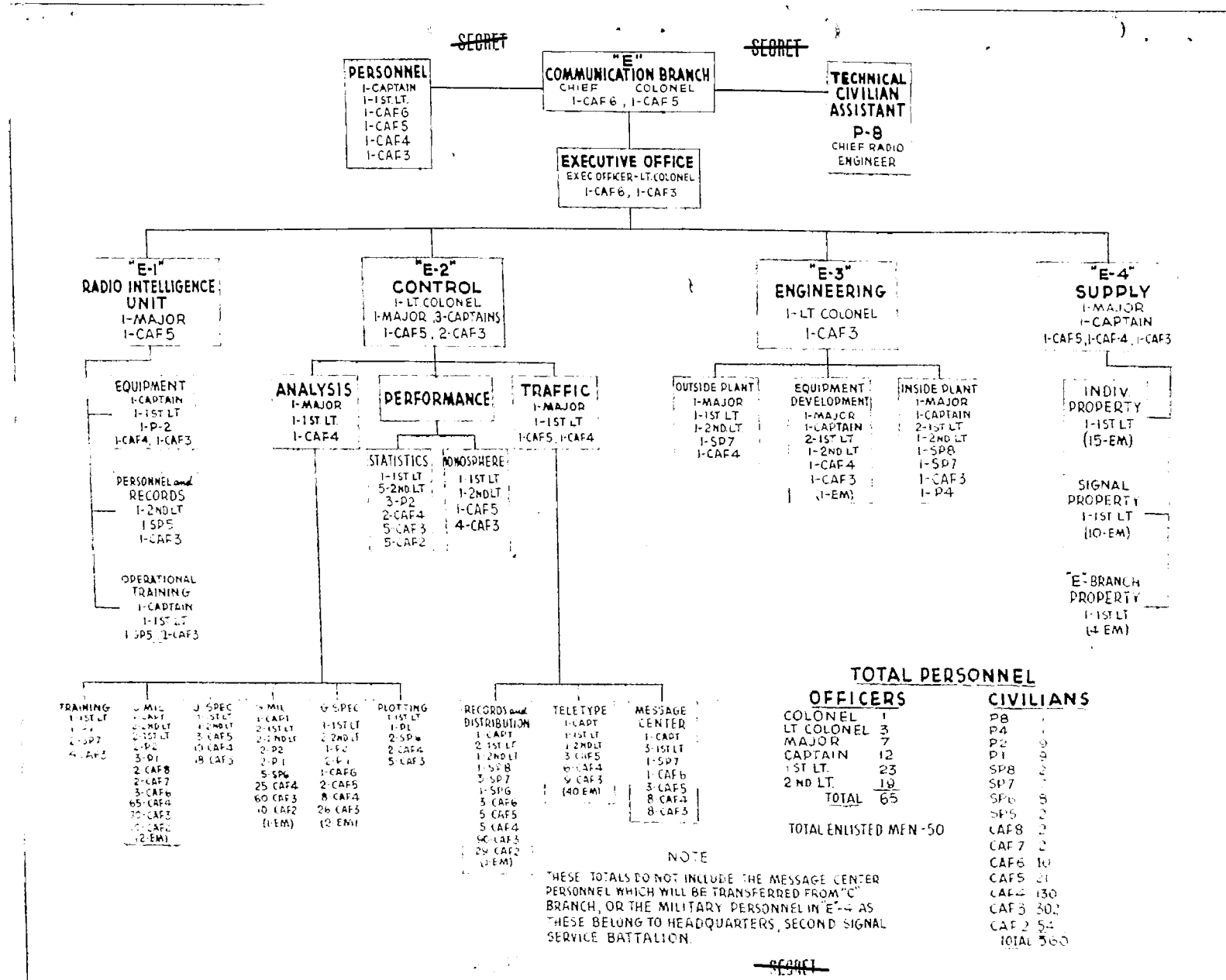


TOTAL ENLISTED MEN 15

OFFICERS		CIVILIANS	
LT. COLONEL	1	CAF 5	1
MAJOR	3	CAF 4	1
CAPTAIN	2	TOTAL 2	
TOTAL	6		

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September 25, 1941

MEMORANDUM FOR: Executive Officer (Thru O.I.C., Operations Branch)

1. The following data with respect to personnel on duty and space occupied by the SIS, together with estimated requirements for each, is furnished in compliance with instruction contained in Office Memorandum No. 112 dated September 19, 1941:

	<u>Oct. 1</u> <u>1941</u>	<u>Jan. 1</u> <u>1942</u>
a. Number of officers on duty in Division	39	42
b. Number of enlisted men on duty in Division	8	10
c. Number of civilians on duty in Division	98	116
d. Number of square feet occupied by records	See j	See j
e. Number of square feet used for storage	1886	2000
f. Number of square feet used by mimeograph machines	See j	See j
g. Number of square feet used by blueprint machines	0	0
h. Number of square feet used by photostat machines	See j	See j
i. Number of square feet used by other duplicating machine	See j	See j
j. Number of square feet for other purposes, exact use to be specified.		
Records (Secret and Confidential)	815	1000
Vaults	400	1000
Mimeograph Machines (Special secret work)	9	18
Photostat machines (Special secret work)	2	2
Other duplicating machines (Special secret work)	1446	1600

	<u>Oct. 1.</u> <u>1941</u>	<u>Jan. 1</u> <u>1942</u>
Laboratory, Secret ink, etc.	500	1000
Machine Shop for special equipment	500	1000
	<u>3672</u>	<u>5620</u>

R. W. Minckler,  
Lt. Col., Signal Corps.

*618  
Date... 12/14/41... Sig... R.W. Minckler*

*Jan - 1942*

*(14-144000)*

IN REPLY  
REFER TOOCSigO 311.5-General  
(1-2-42)WAR DEPARTMENT  
OFFICE OF THE CHIEF SIGNAL OFFICER  
WASHINGTON

AC-3

January 2, 1942.

MEMORANDUM FOR: Officer in Charge, Military Personnel Division THRU  
Officer in Charge, Army Communications Branch.

1. The accompanying chart indicates the procurement objective of officer and enlisted personnel to meet expected demands of various signal intelligence agencies. No attempt has been made to indicate grades at this time since it is believed to be of secondary importance and will in many cases depend upon the personal qualifications of personnel provided. About 14% of the officer personnel and 5% of the enlisted have already been procured and trained. The balance of the objective should be reached by July 1, 1943.

2. Detailed explanation of chart:

a. Tabulating machine: The thirteen officers required under this heading should be selected from persons having a wide ~~w~~ civilian experience with IBM equipment. The necessary additional training will be provided by the SIS, War Department. Consideration should be given to commissioning certain qualified civilians now engaged in this work in the SIS. The enlisted men for this specialty need have no previous experience. They are being trained at the Cryptographic School, Fort Monmouth, where instruction is now being given. One officer per month, or more, should be obtained.

b. Machine maintenance: It will be the duty of the personnel under this heading to repair, maintain, and distribute all cipher machines issued by the Chief Signal Officer. The officer personnel selected should preferably have had experience in the engineering or servicing of teletype equipment. (Further training will be afforded in this office or by assigning them to a course of instruction conducted by the Navy.) The enlisted personnel should have completed the teletype maintenance course conducted by the Signal Corps School or possess civilian experience equivalent thereto. Three officers and ten enlisted men per month should be obtained effective at once.

c. Laboratory: All officer personnel should be graduate chemists or chemical engineers. Enlisted personnel should be at least student chemists. All training to be conducted by SIS, War Department. One officer and one enlisted man about every two months should be obtained.

d. Cryptologic: Cryptologic personnel includes both cryptographers or code compilers and cryptanalysts or code solvers. There is no suitable civilian occupation from which experienced persons can be drawn, consequently, all must be trained after selection. Possible sources of officer personnel are as follows:

(1) Graduates of Signal Corps Officer Candidate School who have previously attended the Cryptographic School.

(2) Officers now holding commissions who have taken correspondence courses in cryptography.

(3) Certain selected civilian employees now on duty in SIS.

(4) Signal Corps Officers or graduates of Signal Corps Officer Candidates School without previous cryptographic training.

(5) Civilians who have taken correspondence courses in cryptography and who otherwise meet the requirements for commission. Additional training will be provided at the Cryptographic School, Fort Monmouth, and/or in SIS, War Department. All enlisted personnel should be graduates of the Cryptographic School, Fort Monmouth


About forty officers now and an average of 10 each month should be obtained. Eighty-five enlisted men every six months should be obtained from the Cryptographic School. (Eighty-five men is present capacity.)

e. Linguists: All officer and enlisted personnel under this heading should be selected from persons having sufficient knowledge of one or more of the languages listed below to enable them to speak the language fluently or to translate into English with only occasional reference to a dictionary. No linguistic training is contemplated. Languages should be divided as follows:

<u>Language</u>	<u>Officers</u>	<u>Enlisted Men</u>
Japanese	30	40
Italian	15	20
German	30	40
Portuguese	10	10
Spanish	5	12
French	<u>10</u>	<u>10</u>
Total:	100	132

Personnel should be supplied at a proportionate rate per month.

f. Radio intercept: A course of instruction for radio intercept personnel should be set up at the Signal Corps School. Such a course of instruction should embrace copying high speed transmission, the use of recording equipment, copying the Japanese kana code, international radio procedure, the use of direction finding equipment, and the tactical employment of radio intelligence units. Both officer and enlisted personnel should attend this course of instruction, only qualified radio operators being selected. Upon completion of this special instruction the officer personnel should receive additional training through attachment to radio intelligence units. Personnel should be supplied quarterly or at a proportionate rate per month.

  
R. W. Minckler,  
Lt. Col., Signal Corps.

Attached:  
Chart indicating  
Procurement obj.



## PERSONNEL PROCUREMENT OBJECTIVE--SIGNAL INTELLIGENCE SERVICE

OFFICERS

	Tab. Machine	Machine Maint.	Laboratory	Cryptologic	Linguists	Radio Intercept
War Dept.	3	3	3	18	6	6
GHQ	3	3	3	18	18	6
Armies (4)				8	4	4
Defense Cnds (7)				14	7	7
Theaters (5)		5		10	5	5
AFCC	3	3		18	18	6
Air Forces (4)				8	4	4
School	1	1		10	6	2
Rep. Pool	3	5	2	46	32	27
<b>Total Officers</b>	<b>13</b>	<b>20</b>	<b>8</b>	<b>150</b>	<b>100</b>	<b>67</b>

ENLISTED MEN

	Tab. Machine	Machine Maint.	Laboratory	Cryptologic	Linguists	Radio Intercept
War Dept.						
GHQ	36	9	9	36	18	15
Armies (4)		8		16	8	8
Defense Cnds (7)		14		28	14	14
Theaters (5)		10		20	10	10
AFCC	36	9		36	18	15
Air Forces (4)		8		16	8	8
School		4		10	6	15
Rep. Pool	20	10	6	50	50	115
<b>Total Enlisted Men</b>	<b>92</b>	<b>72</b>	<b>15</b>	<b>212</b>	<b>132</b>	<b>200</b>

January 29, 1942.

311.5 - *Ken*

321

SUBJECT: Personnel Procurement - Signal Intelligence Service.

MEMORANDUM FOR: Assistant Chief of Staff - G-1.

1. The Signal Intelligence Service of the Office of the Chief Signal Officer has formulated the procurement objective of enlisted personnel necessary to meet the expected demands of the various Signal intelligence agencies which should be reached by July 1, 1943.

2. Included in the personnel requirements are specialists who are not available from Signal Corps units or the Signal Corps Replacement Training Centers. These specialists are:

a. Laboratory Technicians: The enlisted personnel in this group should be chemists or at least student chemists. A total of 15 men will be needed at the rate of one man approximately every two months.

b. Linguists: The personnel in this group should be selected from persons having sufficient knowledge of one or more of the languages listed below to enable them to speak the language fluently or to translate into English with only occasional reference to a dictionary. The following division of the various languages is desired.

<u>Language</u>	<u>Enl. Men Required</u>
Japanese	40
Italian	20
German	40
Portuguese	10
Spanish	12
French	10
Total	132

This personnel will be needed at the rate of approximately eight men per month.

3. It is accordingly recommended that The Adjutant General be directed to select enlisted men, branch immaterial, who have completed basic training and transfer them to the 2nd Signal Service Company, Munitions Building, Washington, D. C., according to the schedule indicated in paragraph 2a and 2b above.

4. It is further recommended that prior to the transfer of any of the enlisted men so selected, their name, Army serial number, and organization be submitted to the 2nd Signal Service Company to determine whether they are suited for the type of work involved. This procedure is necessary because of the nature of the work to be performed in the Signal intelligence agencies.

For the Chief Signal Officer:

Henry L. P. King,  
Colonel, Signal Corps.

*rest*

COPY FOR: S. I. S.



~~SECRET~~OCSigO 311.5-General  
(2-28-42)AC-3  
February 28, 1942.

Signal Intelligence Service

The Assistant Chief of Staff, G-2

1. It is recommended that authority be granted for a further expansion of the Signal Intelligence Service. The personnel and funds required for the purpose are set forth in inclosure number one hereto.

2. The present authorized personnel and funds for the operation of the Signal Intelligence Service were established during peace times. Since the declaration of war, further expansion is necessary to meet the greatly increased activities of this service.

3. Experience gained in carrying out previous expansions of the Signal Intelligence Service has demonstrated:

a. That qualified personnel to operate the service cannot be obtained directly from civil life because there are few or no civilian pursuits which qualify individuals for cryptanalytic duties. Cryptanalysis is not a civil vocation. It is necessary, therefore, to employ individuals having the basic educational qualifications and train them for each of the highly specialized duties which they are to perform.

b. That the training necessary to qualify individuals for the cryptanalytic specialty requires intensive instruction extending up to twelve months for elementary duties, and from one to two years or longer for advanced and highly duties.

c. That a thorough investigation of all prospective employees in regard to patriotism, loyalty and personal connections is essential.

4. The personnel such as tabulating machine and punch operators are required to perform work which is an integral part of the increasing duties assigned to the Signal Intelligence Service. It is essential that such personnel be provided at the same time as additional technical specialists.

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OCSigO 311.5-Geners\*  
(2-26-42)

5. The above considerations, augmented by the present national state of war, dictate that the expansion of the Signal Intelligence Service should be authorized at the earliest practicable date, to permit this service to meet the emergency needs.

6. No additional funds will be required for this expansion prior to July 1, 1942.

Dawson Olmstead,  
Major General,  
Chief Signal Officer of the Army.

1 Inclosure —  
Incl.#1 - Position &  
Cost Estimate indup.

*Spec 320.2 (S.I. Expansion) (27 Feb 42)*

~~SECRET~~

FILE  
INITIALS *MEG*

~~SECRET~~OCSigO 311.5-General  
(4-13-42)

SPSIS

April 13, 1942

MEMORANDUM FOR: Assistant Chief of Staff, G-2.

SUBJECT: Expansion of Signal Intelligence Service

1. Reference is made to your memorandum dated March 28, 1942, same subject as above. In compliance therewith, steps are being taken to obtain and train additional personnel and to establish additional facilities to provide for the additional service desired at the earliest practicable date.

2. In connection with the instructions contained in the directive, the following recommendations and comments regarding various points are submitted at this time:

a. With reference to paragraph 3, it is recommended that the attempt to operate on Baltic and Belgium material be eliminated at this time due to apparent lack of material and probable lack of value.

b. To meet the immediate needs of a major West Coast intercept station, steps are being taken to acquire from the C.A.A. their large receiving station south of San Francisco. This station is equipped with modern receiving equipment including R.C.A. and Codocode diversity receivers which will give maximum efficiency and reception. Upon acquisition of these facilities, it is intended to use them for the interception of Japanese and other desirable traffic in the Far East. Preliminary steps have been taken for the survey and establishment of an intercept station in Alaska which will also be used for Japanese and other desirable traffic in the Far East. Preliminary steps are being taken toward the establishment of a large station on the East Coast of the United States and these steps are being coordinated with the establishment of the second echelon of the Signal Intelligence Service.

c. With reference to paragraph 9, an immediate study and survey is being made toward the early location of

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another echelon of the Signal Intelligence Service outside the city of Washington. It is planned that this echelon will be composed of part of the activities, personnel, and equipment of the Signal Intelligence Service and will be prepared to function as the operating section of the Signal Intelligence Service should it be necessary to move all of the activities from the Munitions Building. The establishment of the building for this echelon will provide space for a considerable portion of the new personnel.

d. With reference to paragraph 13, the employment of existing Radio Intelligence companies has already been coordinated to the extent which will permit their full assistance in this program. Among the directives in assignment of duties of this office, the following are included for the localities indicated:

(1) Mexican Border, Gulf, and southern land frontier traffic is covered as follows:

(a). Axis espionage, foreign governments in and out of Mexico, and Mexican Army radio traffic is covered by 122nd Signal Radio Intelligence Company, Fort Sam Houston, Texas, 124th Radio Intelligence Company, Fort Sam Houston, Texas, 123rd Radio Intelligence Company, Fort Jupiter, Florida, Fort Benning, Georgia, and Fort Story, Virginia, and monitoring station #3, Fort Sam Houston, Texas. In addition, radio intercept detachments and stations in Trinidad and Panama cover espionage traffic in addition to other coverage. The Radio Intelligence companies listed above also cover such other circuits and traffic as is directed by their Army Signal Officers. Signal Officer, Third Army, has recommended no change in the present locations of the Radio Intelligence companies under his jurisdiction.

(b). Seattle, Washington and northwest traffic is covered by the 125th Radio Intelligence Company at Fort Lewis, Washington. Their primary assignment by this office is to cover the Japanese Army traffic; in addition they cover any other circuits and traffic as directed by the Western Defense and Fourth Army commander to meet his local requirements.

(c). The Radio Intelligence Platoon located in Newfoundland has been directed to cover German Army and Air Force traffic.

Eight Radio Intelligence companies are being activated before the end of the year in accordance with the Army Expansion Program. It is not deemed necessary that the activation of any additional companies be recommended at this time.

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e. With reference to paragraph 14, the combining of all signal intelligence activities of the Federal Government under one head is not considered advisable or necessary. The major signal intelligence activities are now carried on by the Army, Navy, and the Coast Guard. In addition thereto, the Federal Bureau of Investigation carries on certain signal intelligence activities relating to the responsibilities with which they may be charged. There is such complete and full collaboration and coordination of effort and activities between the three armed services that they now function in a manner which permits them to receive all the benefits that would be derived from a combined unit plan. It does not appear that anything would be gained by the combining of these activities into one organization.

3. Instructions have been issued to the monitoring stations in San Francisco and Hawaii to copy all Japanese military traffic emanating from the R.C.A. station in Cebu. An initial detachment of six officers and eight enlisted men for the augmentation of the Signal Intelligence Service in Australia has recently been dispatched by air transportation. Some additional personnel will follow in the near future.

For the Chief Signal Officer:

Frank E. Stoner,  
Brigadier General, U. S. Army.

~~SECRET~~



SPSIS 311.5-General  
(11-28-42)

SPSIS-1

November 28, 1942

Memorandum for Requirements Division, S. O. S.  
(Attention Col. Pierson)

1. The following represents a considered guess as to the possible expansion of Signal Security installations which might be anticipated during the fiscal year 1944:

Eastern Zone	Personnel	
	Presently Authorized	Increases Anticipated
Arlington Hall Station	4700	None
Station 1	2400	1200
(Plant only--T of O housing for 50 officers and 1150 enlisted men, 4-200 man school type operations buildings, 4 messes, 4 bath units, necessary sanitation and utilities.)		
Western Zone		
Station 2 (Plant only)	541	720
(T of O housing for 720 enlisted men, 2 messes, 2 bath units, etc.)		
Secondary Operation Unit	None	2500
(Land and Plant) T of O housing for 100 officers, 400 enlisted men	1 operations building for 100 officers, 400 enlisted men and 1800 civilians	
Alaska		
Secondary Station	260	None

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-2-

		Personnel	
		Presently Authorized	Increases Anticipated
Southern Zone			
Secondary Station		None	260
(Land and Plant)	Housing for 20 officers, 240 enlisted men, operations building--antenna fields, headquarters building, fire and guard house, storehouse, shop, auxiliary power plant, infirmary and etc.		

2. The above has been discussed with Col. C. W. Clarke of G-2 but by reason of the shortness of time allowed for consideration does not have the concurrence of the Chief Signal Officer.

Frank W. Bullock,  
Colonel, Signal Corps.

4/26

9/1

F-29463

SPRMC 320.2 (11-28-42)

~~SECRET~~  
By authority of C.C. S.O.S.  
FII/mab  
DEC. 4 1942 Ext. 4155  
(Date) (Initials)

*File*  
*Art. Hall*

MEMORANDUM FOR THE CHIEF OF ENGINEERS:

Attention: Major Blair

Subject: Signal Security Installations.

It is desired that the attached list indicating anticipated increases in Signal Security Installations be included in Section 5A of the Army Supply Program with an undetermined starting date.

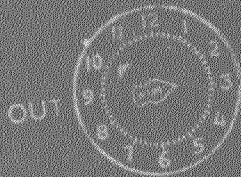
By Command of Lieutenant General SOMERVILLE:

W. A. WOOD, JR.,  
Brigadier General, General Staff Corps,  
Director, Requirements Division.

Incl:  
Memo for Req. Div.  
fm OGSO 11-28-42

ALBERT PIERSON,  
Colonel, G.S.C.,  
Chief, Construction Br., Req. Div.

DEC 4 1942



WAR DEPARTMENT  
SUPPLY OF SUPPLY  
REQUIREMENTS DIVISION

*qrb*

COPY TO: CHIEF SIGNAL OFFICER

DEC 4 32 PM



DISPATCHED MISC. DIV.  
S.&C. SECTION

RECEIVED

1942

*Received 4:55 PM*  
*12-8-42*

*Inform Army Supply Program Section 5A*

*from 320.2 (S&C Requirements) (see 320.2)*  
*+ 62007*  
*+ 400*

SPSIS 311.5-General

SPSIS-1

February 11, 1943.

MEMORANDUM FOR: Colonel Carter W. Clarke,  
War Department,  
Washington, D. C.

1. In compliance with telephone request of Colonel McCormack, the following general description of the expansion of activities of the Signal Security Service since December 8, 1941 is furnished:

a. Code Compilation:

(1) Tremendous expansion of code compilation, production, distribution and accounting therefor, which has been required for supplying secret communication systems to all units of the armed forces on a war time basis.

(2) A printing plant is now under construction in the Signal Security Service to permit production of all codes and ciphers without recourse to any outside agency.

(3) A Security section has been established to constantly study the cryptographic security of our own cryptographic systems and related procedures.

b. Solution:

(1) The coverage of foreign language government traffic has been increased from six to eighteen. In addition, Central and South American government coverage has been added. In addition to diplomatic traffic previously covered, military attache and military field systems have been added. Approximately 175 different cryptographic systems are now being read.

(2) Meteorological and foreign language shorthand system coverage has been undertaken.

c. Traffic Analysis:

(1) Extensive work has been undertaken to analyze enemy traffic to forecast expected activities, areas of such activities, and enemy battle order therein. This analysis is differentiated from cryptanalytic solution and translation, in that it is a systematic study of traffic flow as to sources, destinations, volume, time and type.

~~SECRET~~

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d. Invisible inks and related means of secret communications:

(1) The facilities of this section were expanded to include microphotographic methods which have come to be very important in this field.

e. Engineering and Research:

(1) A section has been established to pursue the development of secret communication devices of mechanical and electrical design, both for cryptographic and cryptanalytic purposes.

f. General:

(1) Three large fixed monitoring stations have been established and are now in service, providing approximately global coverage as regards diplomatic traffic. Certain field radio intelligence companies are providing military traffic.

(2) Training has been greatly expanded by the establishment of training schools for cryptography, cryptanalysis, radio intercept, and traffic analysis

(3) The personnel expansion of the Signal Security Branch is indicated below:

	<u>Dec. 7, 1941</u>	<u>Feb. 1, 1943</u>
Officers	45	280
Enlisted	28	636
Civilian	108	1754

Under the latest approved table, the total civilian personnel to be employed by June 30, 1943 is 3603.

For the Chief Signal Officer:

W. Preston Corderman,  
Colonel, Signal Corps.

*Spec*  
*320.2 (SSA [unclear])*  
*+ 322*  
*(1/16/43)*

*96*

~~SECRET~~

SSS

Date

Sig

SPSIO

~~SECRET~~

*File  
WPC*

2 August 1943

MEMORANDUM for General Somervell:

Subject: Civilian Personnel - U.S. "Black Chamber"

1. The Signal Intelligence Service, a War Department Agency of the Army Service Forces, operates under directives issued by the Assistant Chief of Staff, G-2. Its primary functions are the breaking of Axis codes and ciphers, constant surveillance for the security of all U. S. Army communications (wire, radio and cable), and the compilation and distribution of all U. S. codes and cipher systems.

2. The basic War Department directive for this agency was approved by the War Department General Staff and transmitted to the Chief Signal Officer in letter from The Adjutant General, AG-320.2 (4-18-42)MC-B, subject: "Expansion of the Signal Intelligence Service". This directive included the establishment of large intercept stations at several points, an attack against Axis codes and ciphers and an attack against the codes and ciphers of all major neutral and Allied powers.

3. In order to accomplish the requirements in paragraph 2 above, two requisitions for civilian personnel were submitted by the Chief Signal Officer, one on 24 June 1942 and the other on 6 January 1943. These requisitions totaled 3,683 civilian employees, were approved by the Assistant Chief of Staff, G-2, and given final approval by the Operations Division, S.O.S., on 10 July 1942 and 7 January 1943, respectively. General Strong, in passing his approval of the requisition of 6 January, stated "This expansion is more than justified by essential work awaiting this service".

4. The President, on 8 July 1942, issued instructions to the Director of the Budget to discontinue U. S. cryptanalytical units in the offices of the Director of Censorship, the Federal Communications Commission and the Office of Strategic Services, leaving the field of cryptography to be adequately covered by the Army, Navy and F.B.I. Under a directive of the Joint Chiefs of Staff an agreement was reached between the Army, Navy and F.B.I. on the division of work so that duplication would be eliminated in the United States effort.

5. The present allotment of civilians employed in the Army's S.I.S. is 3,683. Under the recent reduction order on civilians employed in the Military District of Washington, this agency would be reduced to 2,461

- 1 -

*W. J. Somervell*  
*W. J. Somervell*

~~SECRET~~

*320.2 (S.S.A. Expansion) (2 August 1943)*

~~SECRET~~

civilian employees. This action would prohibit the accomplishment of current missions from G-2 and the fulfillment of our existing agreements with the United States Navy, the Federal Bureau of Investigation, and the British.

6. The present strength of this activity is 3,125 civilian employees. Consequently, if the new A.S.F. ceiling is applied it will be necessary to discharge 664. This personnel has been painstakingly trained and if allowed to go will be promptly absorbed by the Navy and F.B.I. with consequent loss in the efficiency of the Army Cryptanalytic Unit. Since the Army Service Forces operates this activity for G-2 it is feared that reduction of it will result in its prompt removal from the Army Service Forces.

7. In view of the importance of the work of this agency, it is recommended that the Signal Intelligence Service be exempted from the above referred to order and that the allotment of civilian personnel to the Signal Corps be increased by 1224 for sub-allotment to this service. If this is not possible then the full concurrence of the Assistant Chief of Staff, G-2, should be obtained before orders on reduction are issued.

H. C. Ingles,  
Major General,  
Chief Signal Officer.

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The Expansion of the Signal Security Agency

1. Authorizations for the expansion of the Signal Security Agency:
  - a. Letter of 24 June 1942, authorized:
 

1,057 civilians
336 officers
  - b. Letter of 14 September 1942, ASF, authorized:
 

77 officers
2,789 enlisted men (in increments)
  - c. Letter of 7 January 1943, ASF, authorized:
 

3,683 civilians
-----------------
  - d. Letter of 30 April 1943, ASF, authorized:
 

457 officers
--------------
  - e. Letter of 5 September 1943, approved on 21 December 1943, in accordance with directive of 13 August 1943, for expansion of the Signal Security Agency authorized overall:

817 officers
3,489 enlisted personnel
17 warrant officers
5,853 civilians
<u>10,176</u> Total strength

Signal Security Agency (SSA) Expansion (1942-1943)

~~SECRET~~



## The Expansion of the Signal Security Agency

1. The present strength of the Signal Security Agency is as follows:

## a. Arlington Hall Station:

Officers	487
Enlisted Personnel	898
Civilians	<u>3,364</u>
Total	4,749

## b. The Second Signal Service Battalion:

Within MDA (AHS)	898
Outside MDA & Overseas	<u>2,266</u>
Total Strength	3,164
Officers	64

2. The great majority of officers assigned to the Signal Security Agency performs no command functions. They serve as translators, research technicians, and cryptanalysts, in which capacities there is a scarcity of highly trained and experienced personnel.

3. The greatest number of the enlisted personnel is located at two large intercept stations.

Vint Hill Farms Station	1,502
Two Rock Ranch Station	<u>596</u>
Overseas Stations	228
	2,266

4. The civilian personnel, totaling 3,364, are assigned to the several branches of Arlington Hall Station. It is contemplated that this total, in fulfillment of the authorized expansion, will be increased to 5,653.

a. Headquarters Branch. There are 158 civilians assigned to the Information and Liaison and Coordination Sections which prepare the intelligence derived from intercepted production, and maintain liaison with other intelligence agencies. There are 144 civilians assigned to custodial duties, maintaining 635,000 square feet of floor space in two operations buildings and the Headquarters Building for twenty-four hour operations. The remainder of the persons assigned to Headquarters (131) are used in personnel, supply, fiscal and administrative duties.

b. The Training Branch is responsible for all military and civilian training within the Signal Security Agency. Its responsibilities will be increased with the expansion of the Signal Security Agency, because it provides the orientation and specialized training for all personnel prior to assignment to the specific branches.

c. The A - Protective Security Branch supervises the organization, training and equipment of all radio countermeasures units and prepares summaries of intelligence for distribution to theaters of operations and related agencies. It conducts radio deception operations and is responsible for the training of radio countermeasures officers, 99 of whom have been trained to date, which includes the preparation of training literature and the initiation and supervision of training aids, such as records and films. This branch also analyzes statistics for the preparation of radio deception plans and prepares schedules of operations and dummy messages in its direction of the radio deception operations on the War Department Command net. The overall strength of A Branch is 26 persons.

d. The B - Cryptanalytic Branch. The principal cause for the necessary expansion of the B - Cryptanalytic Branch has been the achievement in the solution of the Japanese Army traffic from which a high grade of intelligence is derived.

(1) Currently, this traffic consists of approximately 6,000 messages per day, or 10,000 pieces of traffic if the duplicates and relays are included. It is important to consider also that Japanese radio and code procedure is quite different from that of any other power. The clerical research necessary to classify and arrange the messages before they are attacked cryptanalytically will require at least 400 persons.

(2) At present, only 300 of the 6,000 messages are being translated and read. Some of them, for technical reasons, may be unreadable, but the successful solution and translation of a number far in excess of 300 may be expected when sufficient personnel to work on them are added. The new clerical personnel will process more material. Consequently, more cryptanalytic aides will be needed to prepare overlaps, place messages, and further process the material available for solution. It is estimated that 800 cryptanalytic aides will be necessary to keep the branch abreast of current traffic.

(3) To translate and solve the messages thus processed, it is estimated that 500 more Japanese translators will be needed. This increase will entail 100 more clerks in order that the translators may devote their talents to the major task of solution and translation.

(4) If the additional 1,800 civilians are secured, the administrative, supervisory, and security responsibilities will be far greater than at present. Therefore, it is necessary to increase the number of officers assigned to the branch to 372. The majority of them, however, will be assigned to translation as highly skilled linguists, and the remainder will be assigned to administrative and semi-technical operations on a twenty-four hour basis.

(5) The increase in enlisted grades consists solely of WAC personnel. This increase is deemed essential for reasons of security and continuous operations. The WAC's will not replace any civilian employees, but will insure a stability that is essential for the successful achievement of the mission assigned to B Branch. The present strength of this branch is 1894.

e. The C - Cryptographic Branch produces cryptographic systems for the entire United States Army.

- (1) There are at present 354 such systems in use. After their production, they have to be distributed and are generally replaced each month by sending a new edition to each of the 3,600 holders. All documents must be registered, and the holders held to strict accountability.
- (2) This branch also maintains and repairs all cipher machines. In addition to the training of officers and enlisted personnel in maintenance, C Branch must stock and issue parts for repair, to be distributed wherever the machines may be. There are 2,650 such machines in use at present with American forces throughout the world.
- (3) C Branch also wires the rotors for their machines, ten of which are required for each machine, or 26,500 rotors. These are periodically replaced for security and each machine is supplied with four sets of rotors, a total of 106,000 rotors.
- (4) All cryptographic systems used by the army are studied constantly to determine the security and detect violations of both cryptographic and transmissions security. The traffic of a large number of the United States Army Headquarters is studied to ascertain the possibility of the enemy gaining intelligence through the analysis of this traffic. The overall strength of C Branch is 214 persons.

f. The D - Laboratory Branch performs all photographic reproductive work for the Signal Security Agency. In the past three months, it has reproduced a grand total of 155,020 photographs, enumerated as follows:

58,000	Enlargements for 8" x 10" photographs from 35 mm film.
17,700	Photostatic prints.
4,400	Multilith negatives, 11" x 14".
29,100	Photographs of pages on 35 mm film.
38,400	Photographs of pages on 16 mm film.
6,900	Identification photographs.
520	Miscellaneous photographs on 4 x 5 film.

500 of 70 persons are engaged in this work.

g. The E - Communications Branch processes 500,000 intercepted messages a month. The processing requires that each message be handled at least three times, (1) for purposes of identification; (2) in recording and counting the traffic; and (3) in extracting the information necessary to effect the control of the interception of traffic. As a consequence, E Branch handles the equivalent of 1,500,000 messages a month. In addition, E Branch is charged with the responsibility of maintaining and supplying

ten fixed intercept stations with the men and equipment necessary to intercept the volume of traffic required and with developing training programs and supervising the initial operation of seventeen radio intelligence companies.

- (1) All the officers assigned to E Branch are technicians in some field of communications, whose services are essential to the successful interception of enemy traffic.
- (2) Enlisted personnel is used in drafting and as teletype operators. The civilians and WAC's in the Message Center at Arlington Hall Station handled more than 1,000,000 code groups in January, with 16.5% of the personnel required to handle 4,000,000 code groups in the War Department Message Center.
- (3) The civilians in E Branch have been specifically trained for their jobs, and are used in clerical and cryptanalytic work in processing and analyzing the traffic for control purposes. At present, 300 Japanese Army circuits are covered and a 200% increase in the traffic is expected within the next six weeks, judging from recent trends.

The overall strength of E Branch is 408 persons.

h. The F - Development Branch is engaged in experimental work in the development and perfection of cryptanalytic and cryptographic machinery. It is conservatively estimated that work on hand is at present equal to

8,878 man-hours for engineering personnel  
 4,525 man-hours for technical personnel  
 2,781 man-hours for laboratory assistants  
 4,100 man-hours for shop personnel.

In order to reduce the backlog of work accumulated through a scarcity of personnel with the necessary engineering and specialized skills, it is considered essential to increase the total personnel in this branch to 110. The total strength of this branch is now 79 persons.

i. The G - Machinery Branch now has a total of 368 machines operated on a twenty-four hour basis by 645 persons.

- (1) It is conservatively estimated that the branch is now processing less than fifty percent of the work which could be performed most economically with the aid of tabulating equipment. The increase in the traffic derived from intercept operations and the increased demands for the processing of material by the cryptanalytic and cryptographic branches, will greatly expand the potential services which the Machinery Branch can render.
- (2) Tabulating equipment is high on the list of priority machinery, and every effort is being made to utilize it effectively and efficiently through three eight-hour shifts.

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At present, the two evening shifts are approximately seventy percent under strength. It is believed that existing machinery would provide for all future needs if sufficient personnel were secured to man fully all three shifts. In the full use of these machines, the Machinery Branch would adhere strictly to the standards set up by the Control Division of the Army Service Forces in the "Program for More Effective Utilization of Tabulating Equipment."

- (3) To achieve these aims, it is estimated that the minimum strength of the branch should be 1322.

~~SECRET~~

WAR DEPARTMENT

THE ADJUTANT GENERAL'S OFFICE

IN REPLY AG 320.2 (12 Aug 43)OB-S-B  
REFER TO

WASHINGTON

BSK/hhh-ZB-939 Pentagon

~~SECRET~~

13 August 1943

SUBJECT: Expansion of the Signal Intelligence Service

TO : Commanding General, Army Service Forces,  
ATTENTION: Chief Signal Officer.

Auth:..... I.A.G.....

Initials: *ap*.....

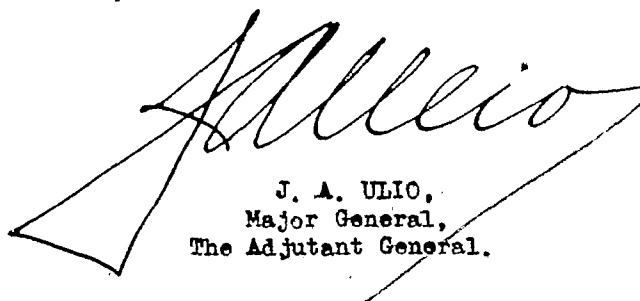
Date: 13 AUG 1943.....

1. Reference is made to letter, this office, AG 320.2 (18 April 42)MC-B, 18 April 1942, subject: Expansion of the Signal Intelligence Service.

2. Supplementing this directive and with a view to exploiting to the maximum recent successes in obtaining intelligence from certain enemy military radio traffic, it is desired that you take all necessary steps immediately to intercept, to communicate to your cryptanalytic center and to analyze all available material of this type. It is further desired that the maximum possible quantity of this intercepted and analyzed material be completely processed and that the transmission of the derived intelligence to the Special Branch, Military Intelligence Service, be expedited.

3. To this end it is desired that you procure without delay such additional personnel, equipment and facilities as may be necessary for the accomplishment of this supplementary directive.

By order of the Secretary of War:



J. A. ULLO,  
Major General,  
The Adjutant General.

~~SECRET~~ac-11794  
4

~~SECRET~~MB-16382 ~~20-2987~~

6728

EO -4147

5782

Subject: Expansion of the Signal Intelligence Service.

SPSEO 320.2

1st Ind.

SPSEO-1

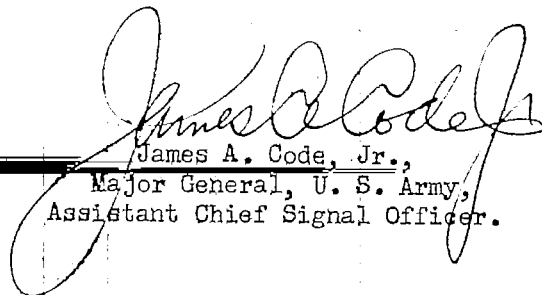
WD, ASF, OCSigO, Washington 25, D. C., 16 August 1943.

To: Commanding General, Army Service Forces.

1. Paragraph 3 of the basic communication is construed as authorizing an increase in the personnel strength of certain Signal Intelligence activities in the Military District of Washington if an increase is required to comply with paragraph 2. In view of recent bulk allotments, confirmation is requested.

2. A study as to additional personnel required is now being made, and when complete, a request for the necessary increase in personnel authorization will be made.

For the Chief Signal Officer:



James A. Code, Jr.,  
Major General, U. S. Army,  
Assistant Chief Signal Officer.

~~SECRET~~

ER-30573-80  
FO-4149  
MP-16382  
5782

~~SECRET~~

2nd Ind.

SFGAS/320.2 (13 Aug 43)

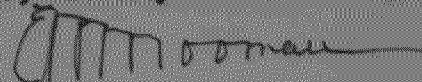
Hqs., ASF, Military Personnel Division, Room 4B 486 - Pentagon,  
Washington, D. C., 30 August 1943.

To: Chief Signal Officer, Room 3 C 338 - Pentagon, Washington, D. C.

1. The current Army Service Forces personnel ceilings imposed upon you is the determining factor in controlling the numbers of personnel under your employment.
2. Paragraph 3 of basic letter is not considered as a basis for any automatic or unlimited increase of personnel.
3. Increases in Army Service Forces personnel ceilings made necessary by added responsibilities or heavier loads must be obtained in the usual manner.

By Command of Lieutenant General Somervell:

F. L. HAYDEN  
Colonel, General Staff Corps  
Acting Director, Military Personnel Division



E. B. MOONAU  
Colonel, U.S.C.  
Executive, Military Personnel Division

*attach folder of cases & sub. & b. & serial slip attach.*

~~SECRET~~



WAR DEPARTMENT  
ARMY SERVICE FORCES

**SECRET**

TRANSMITTAL SHEET

ED-4772  
70-3782  
MB 16382

Office of the Chief Signal Officer Action #1

TO	Chief, Army Communications Service <small>(Service, division, or organization)</small>	4-D-200 <small>(Location)</small>
	<small>(Branch or unit)</small>	<small>(Attention)</small>
DESCRIPTION OF ATTACHED COMMUNICATION	<small>(Originator)</small>	<small>(Date)</small>
	Expansion of the Signal Intelligence Service <small>(Subject)</small>	<small>(File No.)</small>
FROM	Assistant Chief Signal Officer <small>(Service, division, or organization)</small>	3-E-194 2070 <small>(Location) (Telephone)</small>

- The attached correspondence is forwarded to note and return.
- The Chief Signal Officer desires that any increases for personnel be for a definite purpose and be strongly defended.

By order of the Chief Signal Officer:

*James A. Code, Jr.*  
James A. Code, Jr.,  
Major General, U. S. Army,  
Assistant Chief Signal Officer.  
3 September 1943

1 Incl.  
Ltr. to CG, ASF Attn.  
CSO, fm TAG, subj.  
as ab. dd 13 Aug.  
w/1st and 2nd Inds.

To Gen. Code:-

Under the provisions of 2<sup>nd</sup> Ind and in order to comply with basic directive from the SECWAR. Requisition for additional personnel required by SSD, with strong defense therefor, enclosed. It is recommended that this requisition be processed in the usual manner. For security reasons it is further recommended that this paper be handled by Gen. Whitehead only.

JES  
1 Incl added

**SECRET**

9/4/43

ACV 3007  
2

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20-5782

14 September 1973, BUREAU

MEMORANDUM for the Record.

Subject: Expansion of the Signal Intelligence Service.

1. In accordance with General Matejka's instructions, this paper was discussed this date with Colonel Jordan, Colonel Collins, Lt. Col. Slack and the undersigned.
2. Colonel Jordan stated that General Somervell was confronted with two conflicting directives from the Deputy Chief of Staff. One such directive limits the ceiling in the Military District of Washington, and the other directive, contained in Tab A herewith, directing General Somervell (Chief Signal Officer) to procure without delay such equipment, personnel, etc., as may be necessary to accomplish a supplementary mission.
3. Colonel Jordan will prepare a paper to the Deputy Chief of Staff asking which of the conflicting directives General Somervell is to consider himself guided by.
4. In the event the Deputy Chief of Staff lifts General Somervell's ceiling in the Military District of Washington, Colonel Jordan indicated that the request for additional personnel contained in this paper would receive favorable action.

*DH.*  
Duncan Hodges,  
Lt. Col., Signal Corps,  
Chief, Military Personnel Branch.

2 Incls.  
Transmittal Sheet  
w/2 incls., Subj  
as above.

CSO HAS SEEN -

*John*  
15 SEPT*H.C.S.*

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EO-5782

C O P Y

AG 320.2 (12 Aug 43) OB-S-B

VSK/hhh-2B-939 Pentagon

13 August 1943

SECRET

TAG Authentication

SUBJECT: Expansion of the Signal Intelligence Service

TO: Commanding General, Army Service Forces  
ATTENTION: Chief Signal Officer

1. Reference is made to letter, this office, AG 320.2 (18 April 42) MC-B, 18 April 1942, subject: Expansion of the Signal Intelligence Service.

2. Supplementing this directive and with a view to exploiting to the maximum recent successes in obtaining intelligence from certain enemy military radio traffic, it is desired that you take all necessary steps immediately to intercept, to communicate to your cryptanalytic center and to analyze all available material of this type. It is further desired that the maximum possible quantity of this intercepted and analyzed material be completely processed and that the transmission of the derived intelligence to the Special Branch, Military intelligence Service, be expedited.

3. To this end it is desired that you procure without delay such additional personnel, equipment and facilities as may be necessary for the accomplishment of this supplementary directive.

By order of the Secretary of War:

J. A. ULIO,  
Major General,  
The Adjutant General.

(EO-2987) 22133

C O P Y

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## TOTAL CIVILIAN PERSONNEL REQUIRED FOR THE FISCAL YEAR 1944

Total Number	Grade	Present Authorization		Additional Personnel Required		Total Salaries
		No.	Salaries	No.	Salaries	
1	Director of Communications Research, P-3 \$8,000.00	1	\$ 8,000.00	0	-	\$ 8,000.00
1	Chief Radio Engineer, P-3 \$8,000.00	1	8,000.00	0	-	8,000.00
2	Head Cryptanalysts, P-7 \$6,500.00	1	6,500.00	1	6,500.00	13,000.00
7	Principal Research Analysts, P-6 \$5,600.00	2	11,200.00	5	28,000.00	39,200.00
2	Principal Cryptanalysts, P-6 \$5,600.00	0	-	2	11,200.00	11,200.00
6	Senior Research Analysts, P-5 \$4,600.00	6	27,600.00	0	-	27,600.00
19	Senior Cryptanalysts, P-5 \$4,600.00	9	41,400.00	10	46,000.00	87,400.00
20	Research Analysts, P-4 \$3,800.00	19	72,200.00	1	3,800.00	76,000.00
107	Cryptanalysts, P-4 \$3,800.00	20	76,000.00	87	330,600.00	406,600.00
4	Radio Engineers, P-4 \$3,800.00	4	15,200.00	0	-	15,200.00
34	Associate Research Analysts, P-3 \$3,200.00	34	108,800.00	0	-	108,800.00
130	Associate Cryptanalysts, P-3 \$3,200.00	49	156,800.00	61	259,200.00	416,000.00
6	Associate Radio Engineers, P-3 \$3,200.00	6	19,200.00	0	-	19,200.00
104	Assistant Research Analysts, P-2 \$2,600.00	104	270,400.00	0	-	270,400.00
190	Assistant Cryptanalysts, P-2 \$2,600.00	124	322,400.00	66	171,600.00	494,000.00
12	Assistant Radio Engineers, P-2 \$2,600.00	12	31,200.00	0	-	31,200.00
1	Assistant Statistical Analyst, P-2 \$2,600.00	0	-	1	2,600.00	2,600.00
304	Junior Research Analysts, P-1 \$2,000.00	104	208,000.00	200	400,000.00	608,000.00
499	Junior Cryptanalysts, P-1 \$2,000.00	140	280,000.00	359	718,000.00	998,000.00
10	Junior Radio Engineers, P-1 \$2,000.00	10	20,000.00	0	-	20,000.00
20	Chief Cryptographic Specialists, SP-8 \$2,600.00	20	52,000.00	0	-	52,000.00
227	Principal Cryptographic Specialists, SP-7 \$2,300.00	37	85,100.00	190	437,000.00	522,100.00
256	Senior Cryptographic Specialists, SP-6 \$2,000.00	57	114,000.00	199	398,000.00	512,000.00
596	Cryptographic Specialists, SP-5 \$1,800.00	219	394,200.00	377	678,600.00	1,072,800.00
3	Statisticians, SP-5 \$1,800.00	0	-	3	5,400.00	5,400.00
623	Assistant Cryptographic Specialists, SP-4 \$1,620.00	270	437,400.00	353	571,860.00	1,009,260.00
0	Junior Cryptographic Specialists, SP-3 \$1,440.00	118	169,920.00	0	-	-
3	Principal Administrative Officers, CAF-14 \$6,500.00	0	-	3	19,500.00	19,500.00
3	Administrative Officers, CAF-13 \$5,600.00	0	-	3	16,800.00	16,800.00
1	Senior Administrative Officer, CAF-12 \$4,600.00	1	4,600.00	0	-	4,600.00
1	Junior Administrative Officer, CAF-10 \$3,500.00	1	3,500.00	0	-	3,500.00
19	Senior Administrative Assistants, CAF-9 \$3,200.00	3	9,600.00	16	51,200.00	60,800.00

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19	Administrative Assistants, CAF-8 @ \$2,900.00	3	\$ 8,700.00	16	\$ 46,400.00	\$ 55,100.00
25	Head Cryptographic Clerks, CAF-7 @ \$2,600.00	1	2,600.00	24	62,400.00	65,000.00
5	Junior Administrative Assistants, CAF-7 @ \$2,600.00	4	10,400.00	1	2,600.00	13,000.00
4	Procedure Analysts, CAF-7 @ \$2,600.00	4	10,400.00	0	-	10,400.00
65	Principal Cryptographic Clerks, CAF-6 @ \$2,300.00	42	96,600.00	23	52,900.00	149,500.00
4	Principal Clerk-Stenographer, CAF-6 @ \$2,300.00	4	9,200.00	0	-	9,200.00
5	Principal Clerks, CAF-6 @ \$2,300.00	5	11,500.00	0	-	11,500.00
3	Sr. Supervisors, Mach. Tab. Unit, CAF-6 @ \$2,300.00	3	6,900.00	0	-	6,900.00
107	Senior Cryptographic Clerks, CAF-5 @ \$2,000.00	25	50,000.00	82	164,000.00	214,000.00
59	Senior Clerk-Stenographers, CAF-5 @ \$2,000.00	58	116,000.00	1	2,000.00	118,000.00
11	Senior Clerk-Typists, CAF-5 @ \$2,000.00	11	22,000.00	0	-	22,000.00
25	Supervisors, Mach. Tab. Unit, CAF-5 @ \$2,000.00	25	50,000.00	0	-	50,000.00
310	Cryptographic Clerks, CAF-4 @ \$1,800.00	101	181,800.00	209	376,200.00	558,000.00
97	Clerk-Stenographers, CAF-4 @ \$1,800.00	94	169,200.00	3	5,400.00	174,600.00
20	Clerks, CAF-4 @ \$1,800.00	17	30,600.00	3	5,400.00	36,000.00
58	Clerk-Typists, CAF-4 @ \$1,800.00	58	104,400.00	0	-	104,400.00
85	Junior Supervisors, Mach. Tab. Unit, CAF-4 @ \$1,800.00	85	153,000.00	0	-	153,000.00
554	Assistant Cryptographic Clerks, CAF-3 @ \$1,620.00	181	293,220.00	373	604,260.00	897,480.00
70	Assistant Clerk-Stenographers, CAF-3 @ \$1,620.00	70	113,400.00	0	-	113,400.00
81	Assistant Clerks, CAF-3 @ \$1,620.00	67	108,540.00	14	22,680.00	131,220.00
151	Assistant Clerk-Typists, CAF-3 @ \$1,620.00	149	241,360.00	2	3,240.00	244,600.00
335	Senior Tab. Machine Operators, CAF-3 @ \$1,620.00	135	218,700.00	200	324,000.00	542,700.00
150	Senior Card Punch Operators, CAF-3 @ \$1,620.00	50	81,000.00	100	162,000.00	243,000.00
10	Mimeograph Operators, CAF-3 @ \$1,620.00	10	16,200.00	0	-	16,200.00
0	Junior Cryptographic Clerks, CAF-2 @ \$1,440.00	236	339,840.00	0	-	-
0	Assistant Electrical Technicians, CAF-3 @ \$1,620.00	50	81,000.00	0	-	-
0	Junior Clerk-Stenographer, CAF-2 @ \$1,440.00	114	164,160.00	0	-	-
0	Junior Clerks, CAF-2 @ \$1,440.00	105	151,200.00	0	-	-
0	Junior Clerk-Typists, CAF-2 @ \$1,440.00	157	226,080.00	0	-	-
0	Junior Tabulating Operators, CAF-2 @ \$1,440.00	130	187,200.00	0	-	-
0	Junior Card Punch Operators, CAF-2 @ \$1,440.00	80	115,200.00	0	-	-
0	Junior Operators, Mimeograph, CAF-2 @ \$1,440.00	5	7,200.00	0	-	-
0	Junior Electrical Technicians, CAF-2 @ \$1,440.00	150	216,000.00	0	-	-

1	Principal Building Custodian, GPC-9 @ \$2,300.00	0	-	1	\$ 2,300.00	\$ 2,300.00
1	Senior Building Custodian, GPC-8 @ \$2,200.00	0	-	1	2,200.00	2,200.00
3	Head Messengers, GPC-4 @ \$1,500.00	1	1,500.00	2	3,000.00	4,500.00
10	Head Janitors, GPC-4 @ \$1,500.00	0	-	10	15,000.00	15,000.00
7	Messengers, GPC-3 @ \$1,320.00	1	1,320.00	6	7,920.00	9,240.00
50	Janitors, GPC-3 @ \$1,320.00	0	-	50	66,000.00	66,000.00
12	Messengers, GPC-2 @ \$1,200.00	3	3,600.00	9	10,800.00	14,400.00
75	Junior Janitors, GPC-2 @ \$1,200.00	53	63,600.00	22	26,400.00	90,000.00

CU\*\*

Head Messenger, CU-4 @ \$1,320.00	I	1,320.00	0	-	-
Messengers, CU-3 @ \$1,200.00	7	8,400.00	0	-	-

\*\*\*CU Grades eliminated and converted into GPC grades.

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185	Assemblers, Instrument @ 67¢ per hr. (\$1,811.88)	185	\$335,160.80	\$335,160.80
15	Assemblers, Sr. Instrument @ 84¢ per hr. (\$2,271.36)	15	34,070.40	34,070.40
2	Printers, Pressman Helpers @ 75¢ per hr. (\$2,028.00)	2	4,056.00	4,056.00
4	Machine Operators @ 84¢ per hr. (\$2,271.36)	4	9,085.44	9,085.44
6	Printer Pressmen @ \$1.32 per hr. (\$3,569.28)	6	21,415.68	21,415.68
5	Monotype Operator @ \$1.32 per hr. (\$3,569.28)	5	17,846.40	17,846.40
3	Compositors, Hand @ \$1.32 per hr. (\$3,569.28)	3	10,707.84	10,707.84
1	Bookbinder, Foreman @ \$1.32 per hr. (\$3,569.28)	1	3,569.28	3,569.28
5	Machinist, Principal @ \$1.26 per hr. (\$3,407.04)	5	17,035.20	17,035.20
2	Proofreader @ \$1.32 per hr. (\$3,569.28)	2	7,138.56	7,138.56
1	Machine Shop Foreman @ \$1.30 Per hr. (\$3,731.52)	1	3,731.52	3,731.52
1	Instrument Shop Foreman @ \$1.47 per hr. (\$3,974.88)	1	3,974.88	3,974.88

Engineering Equipment Superintendent @ \$3,200.00	1	\$ 3,200.00	-	-
Engineering Equipment Superintendent @ \$2,500.00	1	2,500.00	-	-
Electrical Machinists @ \$1,900.00	3	11,100.00	-	-
Electrical Machinists Helpers @ \$1,600.00	6	10,800.00	-	-

SUMMARY

Present Authorization	3,533	\$6,657,530.00
Additional Personnel Required	2,170	<u>4,866,212.00</u>
Total Personnel Required	5,853	\$11,523,792.00

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WAC PERSONNEL REQUIRED

## Officers:

<u>1st Officer</u>	<u>2d Officer</u>	<u>3rd Officer</u>	<u>Specification Serial Number</u>
0	2	4	2120
5	12	40	2401
12	24	81	9600
2	4	14	9604
19	42	139	Total 200

137 of the officers required above are in specifications which are trained only at this installation. The necessary background qualifications required in these specification numbers would be sufficient for assignment.

## Enlisted:

<u>Grades</u>								<u>Total</u>
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>		
15	45	75	136	206	138	85	700	

A proposed Table of Organization of Specification Serial numbers follows:

Master Sergeant including		15
Personnel NCO (816)	(1)	
Mass Sgt. (824)	(1)	
Supply Sgt. (821)	(1)	
Key Punch Supervisor (272)	(4)	
Tabulating Machine Supervisor (400)	(4)	
Chief Clerk (052)	(2)	
Clerk Record (052)	(2)	
Tech. Sgt. including		45
Key Punch Supervisor (272)	(8)	
Tabulating Machine Supervisor (400)	(17)	
Clerk Record (052)	(5)	
Chief Clerk (052)	(3)	
Stenographer (213)	(5)	
Clerk General (055)	(7)	



## Staff Sgt. or Tech. 3rd Grade including

75

Key Punch Operator (272)  
 Tabulating Machine Operator (400)  
 Acting First Sgt. (585)  
 Supply WFO (821)  
 Cook (060)  
 Personnel Clerk (368)  
 Stenographer (213)  
 Clerk-Typist (405)  
 Clerk General (055)  
 Baker (017)

13  
 30  
 4  
 1  
 3  
 4  
 3  
 1  
 1

## Sergeant or Tech. 4th Grade including

136

Key Punch Operator (272)  
 Tabulating Machine Operator (400)  
 Baker (017)  
 Supply Clerk (835)  
 Cook (060)  
 Personnel Clerk (368)  
 Stenographer (213)  
 Clerk-Typist (405)  
 Clerk General (055)

(26)  
 (52)  
 1  
 2  
 6  
 1  
 8  
 (15)  
 (25)

## Corporal or Tech. 5th Grade including

206

Key Punch Operator (272)  
 Tabulating Machine Operator (400)  
 Clerk Company (501)  
 Baker (017)  
 Clerk Supply (835)  
 Cook (060)  
 Stenographer (213)  
 Clerk-Typist (405)  
 Clerk File (355)  
 Clerk General (055)

(39)  
 (79)  
 4  
 1  
 1  
 6  
 6  
 (18)  
 1  
 (2)

## Private First Class including

138

Key Punch Operator (272)  
 Tabulating Machine Operator (400)  
 Supply Clerk (835)  
 Cook (060)  
 Clerk File (355)  
 Clerk-Typist (405)  
 Clerk General (055)

(31)  
 (61)  
 1  
 6  
 1  
 (15)  
 8

## Private including

85

Key Punch Operator (272)  
 Tabulating Machine Operator (400)  
 Cook

(12)  
 (24)  
 (4)

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## TOTAL CIVILIAN PERSONNEL REQUIRED FOR THE FISCAL YEAR 1944

Total Number	Grade	Present Authorization		Personnel Required		Total Salaries
		No.	Salaries	No.	Salaries	
1	Director of Communications Research, P-8 @ \$8,000.00	1	8,000.00	0	-	8,000.00
1	Chief Radio Engineer, P-8 @ \$8,000.00	1	8,000.00	0	-	8,000.00
2	Head Cryptanalyst, P-7 @ \$6,500.00	1	6,500.00	1	6,500.00	13,000.00
7	Principal Research Analysts, P-6 @ \$5,600.00	2	11,200.00	5	28,000.00	39,200.00
2	Principal Cryptanalysts, P-6 @ \$5,600.00	0	-	2	11,200.00	11,200.00
6	Senior Research Analysts, P-5 @ \$4,600.00	6	27,600.00	0	-	27,600.00
14	Senior Cryptanalysts, P-5 @ \$4,600.00	9	41,400.00	5	23,000.00	64,400.00
20	Research Analysts, P-4 @ \$3,800.00	19	72,200.00	1	3,800.00	76,000.00
21	Cryptanalysts, P-4 @ \$3,800.00	20	76,000.00	1	3,800.00	79,800.00
4	Radio Engineers, P-4 @ \$3,800.00	4	15,200.00	0	-	15,200.00
34	Associate Research Analysts, P-3 @ \$3,200.00	34	108,800.00	0	-	108,800.00
49	Associate Cryptanalysts, P-3 @ \$3,200.00	49	156,800.00	0	-	156,800.00
6	Associate Radio Engineers, P-3 @ \$3,200.00	6	19,200.00	0	-	19,200.00
204	Assistant Research Analysts, P-2 @ \$2,600.00	204	270,400.00	0	-	270,400.00
124	Assistant Cryptanalysts, P-2 @ \$2,600.00	124	322,400.00	0	-	322,400.00
12	Assistant Radio Engineers, P-2 @ \$2,600.00	12	31,200.00	0	-	31,200.00
1	Assistant Statistical Analyst, P-2 @ \$2,600.00	0	-	1	2,600.00	2,600.00
204	Junior Research Analysts, P-1 @ \$2,000.00	204	208,000.00	0	-	208,000.00
110	Junior Cryptanalysts, P-1 @ \$2,000.00	110	280,000.00	0	-	280,000.00
10	Junior Radio Engineers, P-1 @ \$2,000.00	10	20,000.00	0	-	20,000.00
20	Chief Cryptographic Specialists, SP-8 @ \$2,600.00	20	52,000.00	0	-	52,000.00
39	Principal Cryptographic Specialists, SP-7 @ \$2,300.00	37	85,100.00	2	4,600.00	89,700.00
153	Senior Cryptographic Specialists, SP-6 @ \$2,000.00	57	114,000.00	101	202,000.00	316,000.00
119	Cryptographic Specialists, SP-5 @ \$1,800.00	219	394,200.00	200	360,000.00	754,200.00
3	Statisticians, SP-5 @ \$1,800.00	0	-	3	5,400.00	5,400.00
162	Assistant Cryptographic Specialists, SP-4 @ \$1,600.00	270	437,400.00	192	311,040.00	748,440.00
113	Junior Cryptographic Specialists, SP-3 @ \$1,600.00	113	180,800.00	0	-	180,800.00
3	Principal Administrative Officers, CAF-14 @ \$6,500.00	0	-	3	19,500.00	19,500.00
3	Administrative Officers, CAF-13 @ \$5,600.00	0	-	3	16,800.00	16,800.00
1	Senior Administrative Officer, CAF-12 @ \$4,600.00	1	4,600.00	0	-	4,600.00
1	Junior Administrative Officer, CAF-10 @ \$3,500.00	1	3,500.00	0	-	3,500.00
4	Senior Administrative Assistants, CAF-9 @ \$3,200.00	3	9,600.00	1	3,200.00	12,800.00

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4	Administrative Assistants, CAF-8 @ \$2,900.00	3	\$ 8,700.00	1	\$ 2,900.00	\$ 11,600.00
15	Head Cryptographic Clerks, CAF-7 @ \$2,600.00	1	2,600.00	14	36,400.00	39,000.00
5	Junior Administrative Assistants, CAF-7 @ \$2,600.00	4	10,400.00	1	2,600.00	13,000.00
4	Procedure Analysts, CAF-7 @ \$2,600.00	4	10,400.00	0	-	10,400.00
55	Principal Cryptographic Clerks, CAF-6 @ \$2,300.00	42	96,600.00	13	29,900.00	126,500.00
4	Principal Clerk-Stenographers, CAF-6 @ \$2,300.00	4	9,200.00	0	-	9,200.00
5	Principal Clerks, CAF-6 @ \$2,300.00	5	11,500.00	0	-	11,500.00
3	Sr. Supervisors, Mach. Tab. Unit, CAF-6 @ \$2,300.00	3	6,900.00	0	-	6,900.00
107	Senior Cryptographic Clerks, CAF-5 @ \$2,000.00	25	50,000.00	82	164,000.00	214,000.00
59	Senior Clerk-Stenographers, CAF-5 @ \$2,000.00	58	116,000.00	1	2,000.00	118,000.00
11	Senior Clerk-Typists, CAF-5 @ \$2,000.00	11	22,000.00	0	-	22,000.00
25	Supervisors, Mach. Tab. Unit, CAF-5 @ \$2,000.00	25	50,000.00	0	-	50,000.00
260	Cryptographic Clerks, CAF-4 @ \$1,800.00	101	181,800.00	159	286,200.00	468,000.00
97	Clerk-Stenographers, CAF-4 @ \$1,800.00	94	169,200.00	3	5,400.00	174,600.00
20	Clerks, CAF-4 @ \$1,800.00	17	30,600.00	3	5,400.00	36,000.00
58	Clerk-Typists, CAF-4 @ \$1,800.00	58	104,400.00	0	-	104,400.00
85	Junior Supervisors, Mach. Tab. Unit, CAF-4 @ \$1,800.00	85	153,000.00	0	-	153,000.00
654	Assistant Cryptographic Clerks, CAF-3 @ \$1,620.00	181	293,220.00	473	766,260.00	1,059,480.00
70	Assistant Clerk-Stenographers, CAF-3 @ \$1,620.00	70	113,400.00	0	-	113,400.00
90	Assistant Clerks, CAF-3 @ \$1,620.00	67	108,540.00	23	37,260.00	145,800.00
151	Assistant Clerk-Typists, CAF-3 @ \$1,620.00	149	241,380.00	2	3,240.00	244,620.00
235	Senior Tab. Mach. Operators, CAF-3 @ \$1,620.00	135	218,700.00	100	162,000.00	380,700.00
150	Senior Card Punch Operators, CAF-3 @ \$1,620.00	50	81,000.00	100	162,000.00	243,000.00
10	Mimeograph Operators, CAF-3 @ \$1,620.00	10	16,200.00	0	-	16,200.00
50**	Junior Cryptographic Clerks, CAF-2 @ \$1,440.00	236	339,840.00	0	-	72,000.00
0*	Assistant Electrical Technicians, CAF-3 @ \$1,620.00	50	81,000.00	0	-	-
0**	Junior Clerk-Stenographer, CAF-2 @ \$1,440.00	114	164,160.00	0	-	-
0**	Junior Clerks, CAF-2 @ \$1,440.00	105	151,200.00	0	-	-
0**	Junior Clerk-Typists, CAF-2 @ \$1,440.00	157	226,080.00	0	-	-
300	Junior Tabulating Operators, CAF-2 @ \$1,440.00	130	187,200.00	170	244,800.00	432,000.00
136	Junior Card Punch Operators, CAF-2 @ \$1,440.00	80	115,200.00	56	80,640.00	195,840.00
5	Junior Operators, Mimeograph, CAF-2 @ \$1,440.00	5	7,200.00	0	-	7,200.00
0*	Junior Electrical Technicians, CAF-2 @ \$1,440.00	150	216,000.00	0	-	-

\* Converted into ungraded positions.

\*\* Converted into Jr. and Sr. Tab. Mach. Operators and  
Jr. and Sr. Card Punch Operators.

Page 3

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1	Principal Building Custodian, GPO-9 @ \$2,300.00	0	1	\$ 2,300.00	\$ 2,300.00
1	Senior Building Custodian, GPO-8 @ \$2,200.00	0	1	2,200.00	2,200.00
3	Head Messengers, GPO-4 @ \$1,500.00	1	2	3,000.00	3,500.00
15	Head Janitors, GPO-4 @ \$1,500.00	0	30	15,000.00	15,000.00
15	Messengers, GPO-J @ \$1,300.00	1	3	3,900.00	5,250.00
15	Janitors, GPO-3 @ \$1,200.00	0	50	60,000.00	66,000.00
15	Messengers, GPO-2 @ \$1,200.00	3	9	30,600.00	31,800.00
15	Junior Janitors, GPO-2 @ \$1,200.00	53	82	86,400.00	90,000.00

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1	Head Messenger, GPO-4 @ \$1,300.00	1	1,300.00	0	=
1	Messenger, GPO-3 @ \$1,200.00	7	8,400.00	0	=

each grade allocated and converted into GPO grades.

185	Assemblers, Instrument @ 67¢ per hr. (\$1,011.68)	185	\$335,160.80	\$335,160.80
15	Assemblers, Sr. Instrument @ 81¢ per hr. (\$12,271.36)	15	34,070.40	34,070.40
2	Printers, Dressen Helpers @ 75¢ per hr. (\$12,021.00)	2	4,056.00	4,056.00
4	Machine Operators @ 91¢ per hr. (\$12,271.36)	4	9,085.44	9,085.44
6	Printer Pressmen @ \$1.32 per hr. (\$3,569.28)	6	21,415.68	21,415.68
5	Monotype Operator @ \$1.32 per hr. (\$3,569.28)	5	17,846.40	17,846.40
3	Compositors, Hand @ \$1.32 per hr. (\$3,569.28)	3	10,707.36	10,707.36
1	Bookbinder, Foreman @ \$1.32 per hr. (\$3,569.28)	1	3,569.28	3,569.28
5	Mechinist, Principal @ \$1.26 per hr. (\$3,407.04)	5	17,035.20	17,035.20
2	Proofreader @ \$1.32 per hr. (\$3,569.28)	2	7,138.56	7,138.56
1	Machine Shop Foreman @ \$1.38 per hr. (\$3,731.52)	1	3,731.52	3,731.52
1	Instrument Shop Foreman @ \$1.17 per hr. (\$3,971.88)	1	3,971.88	3,971.88

Engineering Equipment Superintendent @ \$3,200.00	1	\$ 3,200.00	-	-
Engineering Equipment Superintendent @ \$2,600.00	1	2,600.00	-	-
Electrical Mechanists @ \$1,800.00	8	14,400.00	-	-
Electrical Mechanists Helpers @ \$1,680.00	6	10,080.00	-	-

SUMMARY

Present Authorization	3683	\$ 6,657,580.00
Additional Personnel Required	1264	2,442,192.00
Total Personnel Required	4947	\$ 9,100,772.00

## TOTAL CIVILIAN PERSONNEL REQUIRED FOR THE FISCAL YEAR 1944

Total Number Required	Grade	Present Authorization No.	Present Salaries	Additional Personnel Required No.	Additional Personnel Salaries	Total Salaries
1	Director of Communications Research, P-8 @ \$8,000.00	1	\$ 8,000.00	0	-	\$ 8,000.00
1	Chief Radio Engineer, P-8 @ \$8,000.00	1	8,000.00	0	-	8,000.00
2	Head Cryptanalyst, P-7 @ \$6,500.00	1	6,500.00	1	6,500.00	13,000.00
7	Principal Research Analysts, P-6 @ \$5,600.00	2	11,200.00	5	28,000.00	39,200.00
2	Principal Cryptanalysts, P-6 @ \$5,600.00	0	-	2	11,200.00	11,200.00
6	Senior Research Analysts, P-5 @ \$4,600.00	6	27,600.00	0	-	27,600.00
19	Senior Cryptanalysts, P-5 @ \$4,600.00	9	41,400.00	10	46,000.00	87,400.00
20	Research Analysts, P-4 @ \$3,800.00	19	72,200.00	1	3,800.00	76,000.00
107	Cryptanalysts, P-4 @ \$3,800.00	20	76,000.00	87	330,600.00	406,600.00
4	Radio Engineers, P-4 @ \$3,800.00	4	15,200.00	0	-	15,200.00
34	Associate Research Analysts, P-3 @ \$3,200.00	34	108,800.00	0	-	108,800.00
130	Associate Cryptanalysts, P-3 @ \$3,200.00	49	156,800.00	81	259,200.00	416,000.00
6	Associate Radio Engineers, P-3 @ \$3,200.00	6	19,200.00	0	-	19,200.00
104	Assistant Research Analysts, P-2 @ \$2,600.00	104	270,400.00	0	-	270,400.00
190	Assistant Cryptanalysts, P-2 @ \$2,600.00	124	322,400.00	66	171,600.00	494,000.00
12	Assistant Radio Engineers, P-2 @ \$2,600.00	12	31,200.00	0	-	31,200.00
1	Assistant Statistical Analyst, P-2 @ \$2,600.00	0	-	1	2,600.00	2,600.00
304	Junior Research Analysts, P-1 @ \$2,000.00	104	208,000.00	200	400,000.00	608,000.00
499	Junior Cryptanalysts, P-1 @ \$2,000.00	140	280,000.00	359	718,000.00	998,000.00
10	Junior Radio Engineers, P-1 @ \$2,000.00	10	20,000.00	0	-	20,000.00
20	Chief Cryptographic Specialists, SP-8 @ \$2,600.00	20	52,000.00	0	-	52,000.00
227	Prin. Cryptographic Specialists, SP-7 @ \$2,300.00	37	85,100.00	190	437,000.00	522,100.00
256	Senior Cryptographic Specialists, SP-6 @ \$2,000.00	57	112,000.00	199	398,000.00	512,000.00
596	Cryptographic Specialists, SP-5 @ \$1,800.00	219	394,200.00	377	678,600.00	1,072,800.00
3	Statisticians, SP-5 @ \$1,800.00	0	-	3	5,400.00	5,400.00
223	Asst. Cryptographic Specialists, SP-4 @ \$1,620.00	270	437,400.00	553	895,860.00	1,333,260.00
118	Junior Cryptographic Specialists, SP-3 @ \$1,440.00	118	169,920.00	0	-	169,920.00
3	Prin. Administrative Officers, CAF-14 @ \$5,500.00	0	-	3	16,500.00	16,500.00
3	Administrative Officers, CAF-13 @ \$5,600.00	0	-	3	16,800.00	16,800.00
1	Senior Administrative Officer, CAF-12 @ \$4,600.00	1	4,600.00	0	-	4,600.00
1	Junior Administrative Officer, CAF-10 @ \$3,500.00	1	3,500.00	0	-	3,500.00

\*\*\*Converted into Assistant Cryptographic Specialists.

2-5787

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19	Senior Administrative Assistants, CAF-9 @ \$3,200.00	3	9,600.00	16	51,200.00	60,800.00
19	Administrative Assistants, CAF-8 @ \$2,900.00	3	8,700.00	16	46,400.00	55,100.00
25	Head Cryptographic Clerks, CAF-7 @ \$2,600.00	1	2,600.00	24	62,400.00	65,000.00
5	Junior Administrative Assistants, CAF-7 @ \$2,600.00	4	10,400.00	1	2,600.00	13,000.00
4	Procedure Analysts, CAF-7 @ \$2,600.00	4	10,400.00	0	-	10,400.00
65	Principal Cryptographic Clerks, CAF-6 @ \$2,300.00	42	96,600.00	23	52,900.00	149,500.00
4	Principal Clerk-Stenographers, CAF-6 @ \$2,300.00	4	9,200.00	0	-	9,200.00
5	Principal Clerks, CAF-6 @ \$2,300.00	5	11,500.00	0	-	11,500.00
3	Senior Supvrs., Mach. Tab. Unit, CAF-6 @ \$2,300.00	3	6,900.00	0	-	6,900.00
107	Senior Cryptographic Clerks, CAF-5 @ \$2,000.00	25	50,000.00	82	164,000.00	214,000.00
59	Senior Clerk-Stenographer, CAF-5 @ \$2,000.00	58	116,000.00	1	2,000.00	118,000.00
11	Senior Clerk-Typists, CAF-5 @ \$2,000.00	11	22,000.00	0	-	22,000.00
25	Supervisors, Mach. Tab. Unit, CAF-5 @ \$2,000.00	25	50,000.00	0	-	50,000.00
310	Cryptographic Clerks, CAF-4 @ \$1,800.00	101	181,800.00	209	376,200.00	358,000.00
97	Clerk-Stenographers, CAF-4 @ \$1,800.00	94	169,200.00	3	5,400.00	174,600.00
20	Clerks, CAF-4 @ \$1,800.00	17	30,600.00	3	5,400.00	36,000.00
58	Clerk-Typists, CAF-4 @ \$1,800.00	58	104,400.00	0	-	104,400.00
85	Jr. Supervisors, Mach. Tab. Unit, CAF-4 @ \$1,800.00	85	153,000.00	0	-	153,000.00
654	Asst. Cryptographic Clerks, CAF-3 @ \$1,620.00	181	293,220.00	473	766,260.00	1,059,480.00
70	Asst. Clerk-Stenographers, CAF-3 @ \$1,620.00	70	113,400.00	0	-	113,400.00
90	Asst. Clerks, CAF-3 @ \$1,620.00	67	108,540.00	23	37,260.00	145,800.00
151	Asst. Clerk-Typists, CAF-3 @ \$1,620.00	149	241,380.00	2	3,240.00	244,620.00
335	Sr. Tab. Machine Operators, CAF-3 @ \$1,620.00	135	218,700.00	200	324,000.00	542,700.00
150	Sr. Card Punch Operators, CAF-3 @ \$1,620.00	50	81,000.00	100	162,000.00	243,000.00
10	Mimeograph Operators, CAF-3 @ \$1,620.00	10	16,200.00	0	-	16,200.00
50**	Junior Cryptographic Clerks, CAF-2 @ \$1,440.00	236	339,840.00	0	-	72,000.00
0*	Assistant Electrical Tech., CAF-3 @ \$1,620.00	50	81,000.00	0	-	-
0**	Junior Clerk-Stenographer, CAF-2 @ \$1,440.00	114	164,160.00	0	-	-
0**	Junior Clerks, CAF-2 @ \$1,440.00	105	151,200.00	0	-	-
0**	Junior Clerk-Typists, CAF-2 @ \$1,440.00	157	226,080.00	0	-	-
400	Jr. Tab. Mach. Operators, CAF-2 @ \$1,440.00	130	137,200.00	270	388,800.00	576,000.00
136	Jr. Card Punch Operators, CAF-2 @ \$1,440.00	80	115,200.00	56	80,640.00	195,840.00
5	Jr. Operators, Mimeograph, CAF-2 @ \$1,440.00	5	7,200.00	0	-	7,200.00
0*	Jr. Electrical Technicians, CAF-2 @ \$1,440.00	150	216,000.00	0	-	-

\* Converted into ungraded positions.

\*\* Converted into Junior and Senior Tabulating Machine Operators and Junior and Senior Card Punch Operators.

1	Principal Building Custodian, CPC-9 @ \$2,300.00	0	\$ -	1	\$ 2,300.00	\$ 2,300.00
1	Senior Building Custodian, CPC-8 @ \$2,200.00	0	-	1	2,200.00	2,200.00
3	Head Messengers, CPC-4 @ \$1,500.00	1	1,500.00	2	3,000.00	4,500.00
10	Head Janitors, CPC-4 @ \$1,500.00	0	-	10	15,000.00	15,000.00
7	Messengers, CPC-3 @ \$1,320.00	1	1,320.00	6	7,920.00	9,240.00
50	Janitors, CPC-3 @ \$1,320.00	0	-	50	66,000.00	66,000.00
12	Messengers, CPC-2 @ \$1,200.00	3	3,600.00	9	10,800.00	14,400.00
75	Junior Janitors, CPC-2 @ \$1,200.00	53	63,600.00	22	26,400.00	70,000.00

## CQ\*\*\*

Head Messenger, CU-4 @ \$1,320.00	1	1,320.00	0	-	-
Messengers, CU-3 @ \$1,200.00	7	8,400.00	0	-	-

\*\*\*CU - Grades eliminated and converted into CPC grades.



185	Assemblers, Instrument @ 67¢ per hr. (\$1,811.68)	185	\$335,160.80	\$335,160.80
15	Assemblers, Sr. Instrument @ 84¢ per hr. (\$2,271.36)	15	34,070.40	34,070.40
2	Printers, Pressman Helpers @ 75¢ per hr. (\$2,028.00)	2	4,056.00	4,056.00
4	Machine Operators @ 84¢ per hr. (\$2,271.36)	4	9,085.44	9,085.44
6	Printer Pressman @ \$1.32 per hr. (\$3,569.28)	6	21,415.68	21,415.68
5	Monotype Operators @ \$1.32 per hr. (\$3,569.28)	5	17,816.40	17,816.40
3	Compositors, Hand @ \$1.32 per hr. (\$3,569.28)	3	10,707.84	10,707.84
1	Bookbinder, Foreman @ \$1.32 per hr. (\$3,569.28)	1	3,569.28	3,569.28
5	Machinists, Principal @ \$1.26 per hr. (\$3,407.04)	5	17,035.20	17,035.20
2	Proofreaders @ \$1.32 per hr. (\$3,569.28)	2	7,138.56	7,138.56
1	Machine Shop Foreman @ \$1.38 per hr. (\$3,731.52)	1	3,731.52	3,731.52
1	Instrument Shop Foreman @ \$1.17 per hr. (\$3,974.88)	1	3,974.88	3,974.88
	Engineering Equipment Superintendent @ \$3,200.00	1	\$ 3,200.00	-
	Engineering Equipment Superintendent @ \$2,600.00	1	2,600.00	-
	Electrical Machinists @ \$1,800.00	8	14,400.00	-
	Electrical Machinists Helpers @ \$1,600.00	6	10,800.00	-

SUMMARY

Present Authorizations	3,663	\$6,657,580.00
Additional Personnel Required	3,070	6,243,852.00
<b>Total Personnel Required</b>	<b>6,733</b>	<b>\$12,901,432.00</b>

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20-5782

WAR DEPARTMENT  
The Adjutant General's Office  
Washington

676.3 (10-16-42)  
OB-S-B

VED/hlc-2-B-939 Pentagon

October 31, 1943

SUBJECT: Radio Countermeasures.

TO: Commanding General, Army Air Forces;  
Chief Signal Officer.

1. The employment of radio countermeasures, including jamming and the practice of radio deception, has become a most important element in the conduct of successful operations. It is considered that the development of equipment and procedures for radio countermeasures should be prosecuted with all despatch.

2. The Signal Corps is charged with radio countermeasures activities other than those conducted in aircraft, which are charged to the Army Air Forces.

3. The Chief Signal Officer is charged with the following radio countermeasures functions:

a. Preparation of policies, methods, procedures, training circulars and field manuals.

b. Preparation of recommendations as to coordination and control.

c. Development of equipment, methods and procedures for protection against enemy radio countermeasures activities.

d. Recommending the type, number and assignment of units charged with conducting radio countermeasures activities, except Army Air Force units.

4. The Commanding General, Army Air Forces, is charged with recommending the type, number and assignment of Army Air Force units charged with conducting radio countermeasures activities.

5. Reference to radio countermeasures includes radar countermeasures.

6. The subject of radio countermeasures should be treated with the most absolute secrecy.

By order of the Secretary of War:

/s/ H. B. Lewis,  
Brigadier General,  
Acting The Adjutant General

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F

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SPSAP

March 19, 1943

MEMORANDUM FOR: Chief, Signal Supply Services,  
Room 2-E-283 Pentagon Building  
Chief, Signal Operating Services,  
Room 3-E-346 Pentagon Building  
Director, Communication Coordination Div.  
Room 4-C-346 Pentagon Building

Subject: Assignment of Responsibilities Within  
the Office of the Chief Signal Officer  
With Regard to Radio Countermeasures.

1. The Director of the Signal Security Division is the advisor to the Chief Signal Officer on radio and radar countermeasures activities. He will also conduct such liaison as the Chief Signal Officer or the Operations Division may direct.

2. The Signal Security Division will operate directly under the Chief Signal Officer in matters pertaining to radio countermeasures and is charged with the following:

a. Establishment of policies and enunciation of of doctrines governing the development, production and use of radio and radar countermeasures.

b. Coordination of the development and quantity procurement of the recommended types of radio and radar countermeasures equipment and radio and radar protective devices.

c. Recommendation of the organization of schools for training personnel of both the Army Air Forces and Army Ground Forces in the correct operation and maintenance of radio and radar countermeasures equipment.

d. Recommendation of the organization of units to which radio and radar countermeasures equipment and radio and radar protective equipment will be issued.

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Memo for: Chief Sig. Opr. Svr.  
 Dir. COM. C. Div.

e. Acting as advisor to special staff sections in the headquarters of task force and theater commanders.

f. Formulation of plans for the manipulation of War Department traffic for purposes of radio deception, based on information and evaluations obtained from the Signal Security Division and Army Communications Division.

g. Establishment of a training program presenting advanced training in radio and radar countermeasures to certain selected officers whose duties or assignment will require them to participate or plan such activities. Also establishment of training program for cadres for RCM units.

h. Acting as the sole agency within the Office of the Chief Signal Officer for distributing radio countermeasures information as received from intelligence agencies.

3. The Army Communications Division will be responsible for executing radio countermeasures involving War Department fixed traffic facilities.

4. The Chief, Signal Operating Services, is charged with training in radio and radar countermeasures under approved policies set up by the Signal Security Division.

5. The Chief, Signal Supply Services, is charged with research, development and procurement of countermeasures equipment in accordance with established procedures.

6. The Military Intelligence Branch of Communications Coordination Division is charged with the extraction and consolidation of countermeasures information and the forwarding of such information to the Signal Security Division only.

7. In order to preserve the necessary security, the necessary correspondence between agencies in the Office of the Chief Signal Officer will be conducted at branch level. The branches intimately concerned with countermeasures will maintain separate classified correspondence registers for correspondence registers for correspondence on this subject and will be the only officers of record for such correspondence.

By order of the Chief Signal Officer:

~~SECRET~~  
 Wm. D. Hamlin,  
 Colonel, Signal Corps, Executive

~~SECRET~~

MP 4-382  
80-5782

SPSIS 311.5-General

SPSIS-1

Subject: Expansion of Signal Security Agency.

To: Commanding General, Army Service Forces, War Department,  
Washington 25, D. C.

1. Reference is made to letter dated 24 June 1942 from the Chief Signal Officer to the Commanding General, Army Service Forces, subject, "Expansion of Signal Intelligence Service", file, SPSIS 311.5-General (6-24-42), and first indorsement thereto dated 19 July 1942, file, SPOFM 320.2. A further expansion of the Signal Security Agency is now necessitated by a supplementary directive to the Agency contained in a letter dated 13 August 1943, from The Adjutant General to the Commanding General, Army Service Forces (attention Chief Signal Officer), a copy of which is attached as Tab A. The execution of the supplementary directive will require the following increases in personnel in that part of the activity within the Military District of Washington:

	<u>Present</u>	<u>Required</u>	<u>Increase</u>
Officers	457	740	283
Civilians	3683	5853	2170
Enlisted	657 (672)	1600	943

A detailed breakdown of the total increase in civilian personnel, according to positions and personal services is shown in Tab B.

2. a. The foregoing increases are those that are deemed ultimately necessary for the proper execution of the supplementary directive. However, because of certain limiting factors, such as necessary increases in cafeteria facilities, and the time required to recruit and train new personnel, especially the large number of Japanese translators involved, it will not be practicable to build up in a single increment the present authorized force of 3683 civilian workers to the total of 5853 shown in paragraph 1 above. It is, therefore, recommended that the required increase be made in two or more increments, of which the first will require the following increases:

	<u>Present</u>	<u>Required</u>	<u>Increase</u>
Officers	457	657	200 (WAAC)
Civilians	3683	4067	384
Enlisted	900*	1600	700 (WAAC)

\*This includes the 199 already requested and the 50 ASTP graduates requested in paragraph d below.

maybe 60 days  
1264

~~SECRET~~

Transfer from field to M.D.W.

~~SECRET~~

A detailed breakdown of this increment according to military and civilian positions is shown in Tab G.

b. The proposed first increment of 1264 positions consists of 364 civilians, 200 WAC officers and 700 WAC enlisted, with necessary expansion of the additional allotments of military personnel to the Military District of Washington. In the best interests of the service it is highly desirable that a substantial number of WAC personnel be procured in this first increment. The following advantages would be obtained with military personnel:

- (1) Provide greater security for Signal Security Agency since there would be a great decrease in turnover.
- (2) A more flexible organization would be established with simplification of transfer of personnel within various Signal Security Agency activities.
- (3) Administrative problems such as messing, housing, transportation, and duty assignment would be greatly simplified.

Certain functions cannot be performed by WAC personnel and it is accordingly necessary that civilians be obtained in part.

c. Sufficient space for the erection of the necessary facilities to accommodate the WAC personnel is available at Arlington Hall Station. To expedite the expansion in the event of the approval of this request, consideration should be given to temporarily housing the WAC personnel elsewhere in the vicinity of Arlington Hall Station.

d. Prior to the request for the next increment, graduates of ASTP Japanese language courses will report for assignment to translator duties at Arlington Hall Station. It is estimated that no more than 50 may be expected prior to 1 January 1944. Accordingly, 50 additional enlisted positions should be allotted within the Military District of Washington to cover the requirements of the first increment.

e. Approval of the first increment of 364 positions, requiring additional funds for the remainder of FY 1944 in the amount of \$818,454 (3/4ths of \$1,091,272) is desired as expeditiously as possible so that a recruiting program can be initiated by 15 September 1943.

f. It will be noted that changes in civilian grades have been recommended. The personnel required is necessary to fulfill the directive which necessitates an increase in the specialized functions of this Agency. This need could not be anticipated when the last authorization was submitted.

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3. In view of the policy of the War Department to use civilians wherever possible and the reported difficulty in securing adequate WAC personnel, as an alternative a proposed first increment has been set up for civilians entirely as shown in Tab D. This alternative will require the following:

a. Additional funds for the remainder of the FY 1944 in the amount of \$1,832,169.

b. No additional plant facilities to accommodate this first increment.

4. The next increment composed entirely of civilians is attached, Tab E.

5. a. Attached hereto, Tab F, is a copy of letter dated 31 October 1942 from The Adjutant General to the Commanding General, Army Air Forces and the Chief Signal Officer, in which the Chief Signal Officer is charged with certain radio countermeasures functions. The latter were assigned to the Signal Security Agency by the Chief Signal Officer in a memorandum dated 19 March 1943, copy of which is attached, Tab G.

b. Until now the civilian personnel conducting the radio countermeasures functions assigned to the Signal Security Agency have been diverted from other Signal Security Agency projects. However, new and recently increased duties of the Countermeasures Branch now require an increase in civilian personnel for their proper performance. The specific additional positions are included in Tab C.

6. The additional workers under the second increment contained in Tabs B and E for 24-hour operation at Arlington Hall Station will necessitate one additional cafeteria. Details regarding the latter will be presented when the request for the next increment in personnel is made.

For the Chief Signal Officer:

James A. Code, Jr.,  
Major General, U. S. Army,  
Assistant Chief Signal Officer.

7 Incls.  
Tabs A thru G.

~~SECRET~~ 8

HEADQUARTERS, SIGNAL SERVICE, HQ

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15													
															Signal Intelligence Service												
Unit	Specialists ratings (Class)	Headquarters section		Administrative and personnel section		Training section		Communications section		Supply section		Photographic section		Administrative section		Document, cryptographic, and cipher section		Codes and alphabets compilation section		Codes and ciphers solution section		Total service		Total		Remarks	
		I	W	I	W	I	W	I	W	I	W	I	W	I	W	I	W	I	W	I	W	I	W	I	W		
3	General officer.....		1	1																						I Initial organization.	
4	Colonel.....		1	1																						* Executive officer.	
5	Lieutenant colonel.....																									Summary of specialists' ratings	
6	Major.....		1	1																						Class	
7	Captain.....																									I	
8	First lieutenant.....																									W	
9	Second lieutenant.....																										
9	Total commissioned.....		2	3	1	2	1	3	3	7	2	3		1	1	2	4	9	2	6	9	28	18	46	25	64	
10	Master sergeant, including.....																										3d..... 1
11	Chemist, junior (51).....																										4th..... 17
12	Clerk, cryptanalytic (55).....																										5th..... 30
13	Clerk, cryptographic (55).....																										Total..... 37
14	Clerk, record (55).....																										67
15	Electrician, radio (174 and 177).....																										
16	Proofreader.....																										
17	Radio plant chief (174).....																										
18	Wire chief, telegraph (97 and 232).....																										
19	Wire chief, telephone (97 and 232).....																										
20	Technical sergeant, including.....																										
21	Chemist, junior (51).....																										
22	Clerk, cryptanalytic (55).....																										
23	Clerk, record (55).....																										
24	Electrician, radio (174).....																										
25	First sergeant.....																										
26	Staff sergeant, including.....																										
27	Clerk, record (55).....																										
28	Stenographer (213).....																										
29	Sergeant, including.....																										
30	Clerk, record (55).....																										
31	Electrician, radio (174).....																										
32	Electrician, telephone (97).....																										
33	Mess (121).....																										
34	Corporal, including.....																										
35	Clerk, cryptanalytic (55).....																										
36	Clerk, cryptographic (55).....																										
37	Clerk, headquarters (55).....																										
38	Draftsman, topographic (76).....																										
39	Mechanic, general (121).....																										
40	Stenographer (213).....																										
41	Private, first class, including.....																										
42	Private.....																										
43	Clerk, headquarters (55).....																										
44	Clerk, headquarters (55).....																										
45	Clerk, record (55).....																										
46	Clerk, record (55).....																										
47	Cook (60).....																										
48	Cook (60).....																										
49	Draftsman, basic (76).....																										
50	Mechanic, general (121).....																										
51	Stenographer (213).....																										
52	Basic.....																										
53	Total enlisted.....		13	27	4	7	2	4	8	13	10	20	3	4	3	4	10	21	7	13	27	41	47	79	96	163	
54	Aggregate.....		15	30	5	9	3	7	11	20	21	32	3	6	1	6	14	30	9	19	39	69	53	124	221	227	
55	O Pistol.....		3	9	1	4	1	5	5	14	2	6		2	1	2	4	9	3	6	10	28	18	45	30	55	

[A. G. 320.2 (11-3-35)]  
 BY ORDER OF THE SECRETARY OF WAR:  
 OFFICIAL:  
 E. S. ADAMS,  
 Major General,  
 The Adjutant General.

MALIN CRAIG,  
 Chief of Staff.

Administrative  
 Record  
 Section  
 Code of Service  
 Section  
 Total

3/10/1938

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 320, 3



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ARMY SERVICE FORCES  
Signal Security Agency  
Washington 25, D. C.

SPSIS-1

SPSIS 320

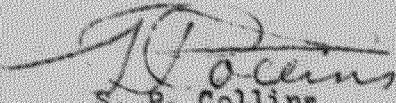
1 March 1944

OPERATIONS INSTRUCTIONS NO. 12

**Subject: Functional Responsibilities**

Attached hereto are organization chart and statement of organization of the Signal Security Agency which are effective 1 March 1944. The statement supersedes all previous statements and directives in conflict therewith.

By order of Colonel Corderman:



S. P. Collins  
Colonel, Signal Corps  
Assistant Commandant

**Incls:**

As stated above

**Distribution:**

Director of Communications Research  
Administrative Officer  
Chief, A Branch  
Chief, B Branch  
Chief, C Branch  
Chief, D Branch  
Chief, E Branch  
Chief, F Branch  
Chief, G Branch  
Director of Training  
2nd Signal Service Battalion  
Information and Liaison Branch

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~~SECRET~~ORGANIZATION AND FUNCTIONS OF THE SIGNAL SECURITY AGENCY

## I. Office of the Commanding Officer

1. The Chief, Signal Security Branch, Army Communications Service, Office of the Chief Signal Officer holds the additional position of Commanding Officer, Signal Security Agency which is a field agency of the Office of the Chief Signal Officer. In this dual role, he directs the operations of the several component field installations in carrying out the mission of the Signal Security Branch as assigned by the Chief Signal Officer. The Commanding Officer, Signal Security Agency also has been assigned by the Chief Signal Officer as the Commanding Officer, Second Signal Service Battalion.

2. The Assistant Commandant, Signal Security Agency, serves as the principal assistant of the Commanding Officer of the Signal Security Agency and represents him during his absence. In a capacity comparable to that of a Chief of Staff, he directs and coordinates the staff activities of the office of the Commanding Officer, and the activities of the Operations Branches for the most effective results. He advises the Commanding Officer of the effectiveness of the organization and evaluates and reports on the results which are obtained. He directs the continuous study of ways and means of improving efficiency of the organization with a view to being prepared for expected contingencies and emergencies, and makes appropriate recommendations to the Commanding Officer.

3. The Assistant to the Assistant Commandant, insures that all instructions issued to the Administrative and Staff Sections, and the Operations Branches are in accord with the policies and plans of the Commanding Officer and directives of higher authority. He assists in the coordination of the activities of the Operations Branches and carries out such studies as may be directed by the Assistant Commandant. He directs appropriate action on correspondence received by the Commanding Officer, Signal Security Agency, and operates a follow-up system to assure prompt action and return of such correspondence.

## II. Staff Functions

1. The Director of Communications Research, exercises staff supervision of the activities of the operating branches in communications research and experimental work on cryptanalytic and cryptographic methods and apparatus. He acts as technical adviser to the Commanding Officer and to the operating branches on all cryptanalytic and cryptographic activities.

2. The Director of Training, conducts the training of civilian employees and conducts certain cryptographic and cryptanalytic correspondence courses for selected and qualified personnel. He

- 1 -

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exercises staff supervision of training of the Advanced Radio Communications School and coordinates all training within the Signal Security Agency.

### III. Administrative Functions

1. The Administrative Officer directs the administrative activities and provides the necessary services and facilities for the operating branches. He directs the selection, investigation, assignment and separation of all civilian personnel. He provides for the classification of positions and the reclassification of civilian personnel and supplies certain services for civilian personnel. He controls the administrative details for the Signal Security Agency and the Advanced Radio Communications School and requests and assigns officer personnel for the Signal Security Agency. He supervises the fiscal operations of the Signal Security Agency, procures and issues necessary supplies and equipment, provides messenger and janitorial service; and maintains the internal security of Arlington Hall Station. He maintains work load studies and prepares summaries of information desired by the Commanding Officer; he also prepares the Annual Report and the History of Signal Security Agency.

2. The Commanding Officer, Second Signal Service Battalion maintains an office of record of all officers and enlisted personnel of the Second Signal Service Battalion. He is responsible for the promotion, transfer and assignment of all personnel of his organization.

### IV. Operations

1. A - The Protective Security Branch establishes policies governing the development, production and use of radio and radar countermeasures; establishes requirements for ground countermeasures equipment; coordinates the development of pertinent equipment and trains personnel in its uses; formulates plans for purposes of radio deception; distributes information for purposes of training and intelligence; and maintains liaison with other agencies of the War Department, Navy Department, National Defense Research Committee and other interested agencies including allied Governments.

2. B - The Cryptanalytic Branch solves and translates foreign code and cipher messages; makes analysis of foreign traffic for informational purposes; deciphers enemy documents in shorthand and in other forms of obscure writing; solves enemy enciphered radio-telephone communication or other non-Morse transmissions; including crypto-photo communications; prepares technical reports on cryptanalytic activities for instructional and historical purposes; and operates and maintains specially developed and rapid analytic machinery for cryptanalytic purposes.

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3. C - The Cryptographic Branch prepares, reproduces, stores and distributes and is the central accounting office for all cryptographic documents and devices employed by the United States Army; issues instructions for the use of such apparatus; initiates action to standardize new cryptographic equipment; directs the supervision of the security of radio and communications operations within the War Department and related networks; and maintains liaison with the Navy Department and other communications agencies in cryptographic and security matters; acts as Adjutant General in enforcement of cryptographic security regulations.

4. D - The Laboratory Branch maintains laboratory facilities for the invention and preparation of secret inks and related means of invisible or microscopic writing and for the detection of such writing in enemy documents; and operates special photographic and photostatic reproduction facilities for the Signal Security Agency. It provides scientific assistance to other branches.

5. E - The Communications Branch directs intercept operations for obtaining foreign and friendly traffic; analyzes that traffic for purposes of intercept control, supervises the construction of fixed radio intercept stations and directs the development of equipment for such purposes; supplies specialized material for training radio intelligence companies; assists in training radio intelligence companies assigned to the Signal Corps; supplies intercepted traffic to the Cryptanalytic and Cryptographic Branches; operates a communications network for the collection and dissemination of information relating to the work of its branch; and maintains a message center for handling communications of Signal Security Agency and Special Branch, G-2.

6. F - The Development Branch invents and develops all cryptographic and cryptanalytic apparatus employed by the United States Army, including cipher devices, cipher machines, cryptographic teleprinter apparatus, cryptographic speech apparatus, crypto-photo mechanisms and other non-Morse communications which have cryptographic applications; gives technical advice to the other operating branches.

7. G - The Machine Branch operates the IBM machinery of the Signal Security Agency and develops specialized procedures and machinery in connection therewith; it performs the tabulating operations connected with the work of all the branches.

8. The Information and Liaison Branch prepares the information derived from cryptanalysis and traffic analysis and forwards that information to Special Branch, G-2, with which it maintains constant liaison; maintains the Library; accumulates catalogs and provides information of value to the other operating branches in the performance of their functions; registers, accounts for and distributes classified documents except cryptographic publications of the Cryptographic Branch; collates and maintains Order of Battle Information; prepares special reports and studies for the other Branches and for

- 3 -

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the Commanding Officer of the Signal Security Agency; conducts liaison in matters pertaining to collateral information with other Government agencies and other Governments; and coordinates periodic reports from U.S.A. signal intelligence agencies abroad and replies thereto.

9. Commanding Officers of subordinate field installations report directly to the Commanding Officer, Signal Security Agency. The various activities of these installations are supervised by the appropriate Branches of the Signal Security Agency.

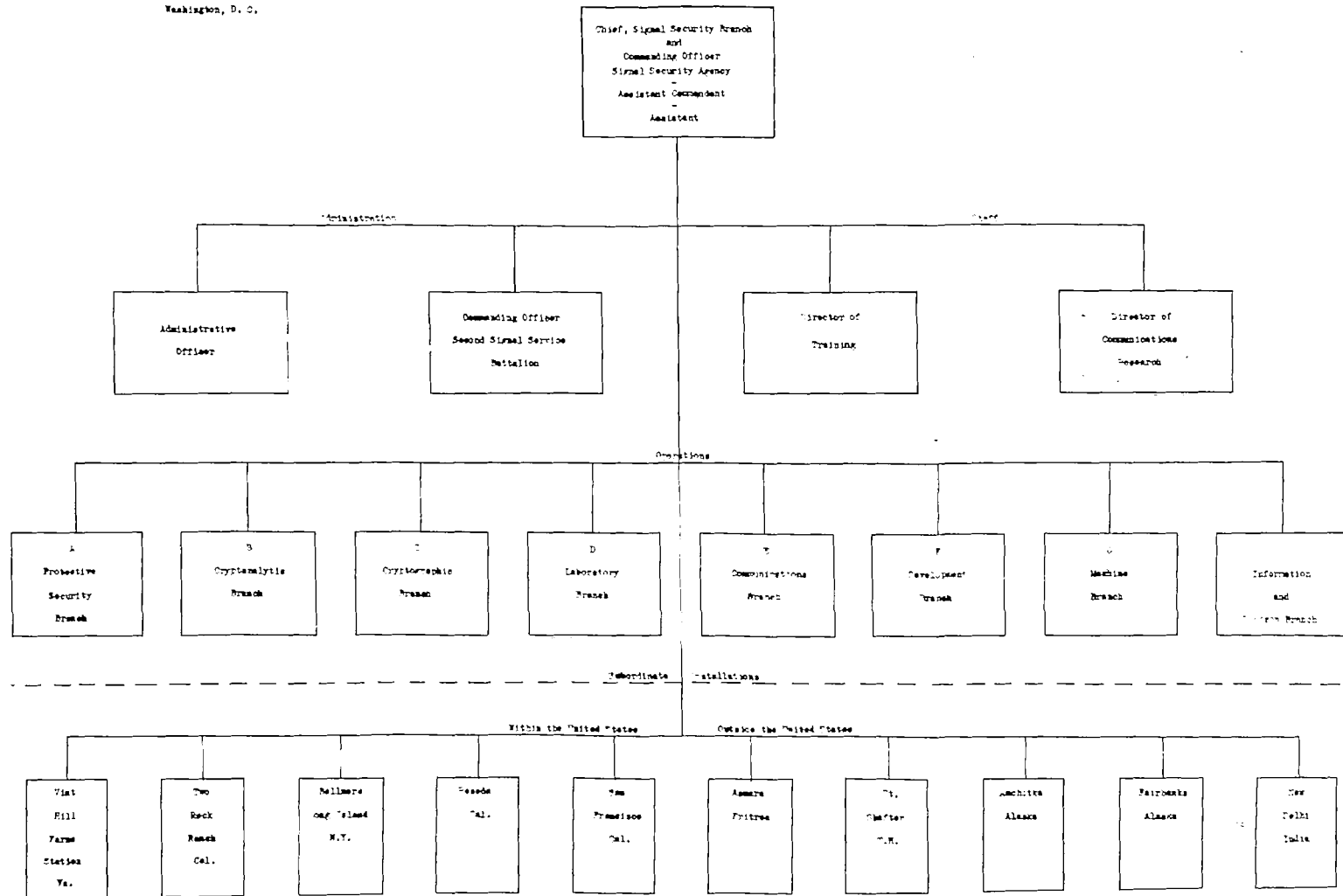
1 March 1944

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Signal Security Agency  
 Army Communications Service  
 Office of the Chief Signal Officer  
 Washington, D. C.



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1 March 1944

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SIGNAL SECURITY AGENCY  
SIGNAL SECURITY BRANCH  
ARMY COMMUNICATIONS SERVICE  
OFFICE OF THE CHIEF SIGNAL OFFICER  
17 APRIL 1944

COMMANDING OFFICER  
ASSISTANT COMMANDANT

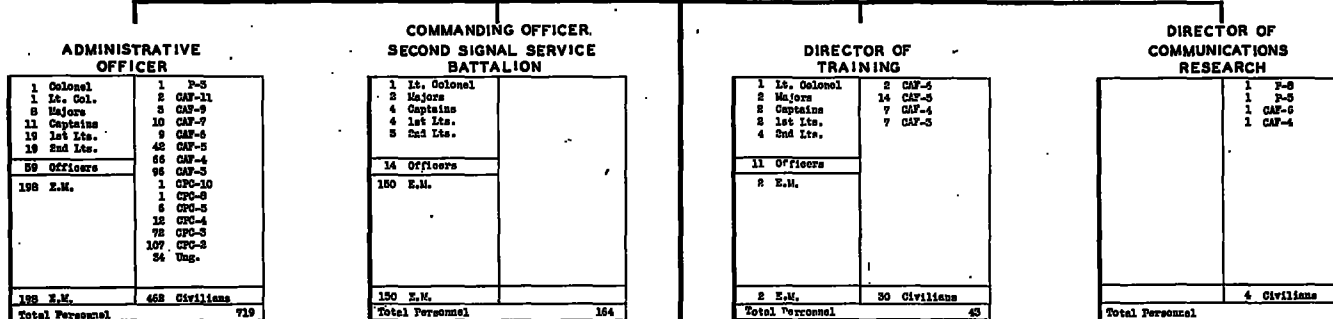
Brigadier General	3 CAP-6
1 Colonel: Asst. Commandant	
1 Colonel: Director of Operations	
1 Major: Assistant	
4 Officers	3 Civilians
Total Personnel 7	

APPROVED:

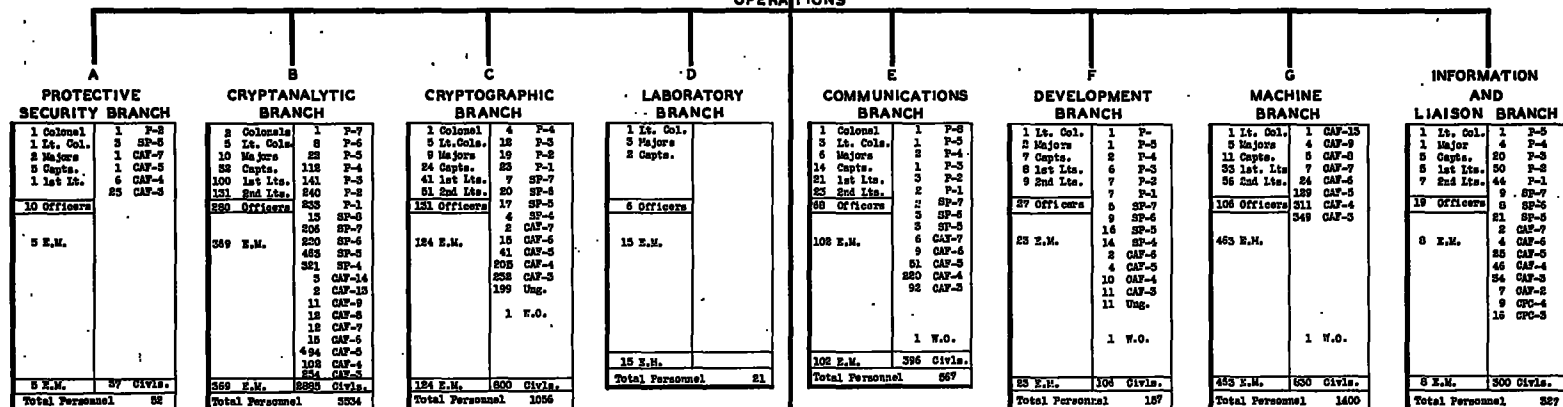
*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

ADMINISTRATIVE

STAFF



OPERATIONS

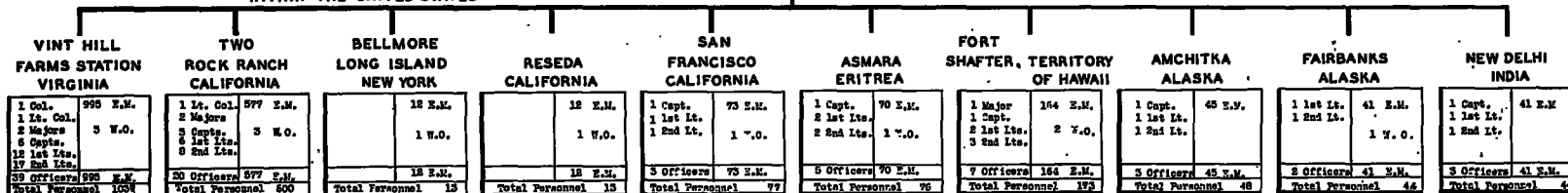


SUBORDINATE

INSTALLATIONS

WITHIN THE UNITED STATES

OUTSIDE THE UNITED STATES



SECRET

ADMINISTRATIVE BRANCH  
ARLINGTON HALL STATION  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

ADMINISTRATIVE OFFICER  
ASST. ADMINISTRATIVE OFFICER

CONTROL OFFICER

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

1 Colonel	1 GAF-6
1 Lt. Colonel	2 GAF-4
1 Major	
1 Captain	
4 Officers	3 Civilians
Total Personnel 7	

1 Major	1 P-3
	1 GAF-5
	1 GAF-4
1 Officer	3 Civilians
Total Personnel 4	

ADMINISTRATIVE

STAFF

<p><b>POST ADJUTANT</b></p> <table border="1"> <tr> <td>1 Major</td> <td>1 GAF-5</td> </tr> <tr> <td>1 Capt.</td> <td></td> </tr> <tr> <td>2 Officers</td> <td></td> </tr> <tr> <td>3 Enlisted</td> <td>1 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 6</td> </tr> </table>	1 Major	1 GAF-5	1 Capt.		2 Officers		3 Enlisted	1 Civilian	Total Personnel 6		<p><b>PERSONNEL OFFICER</b></p> <table border="1"> <tr> <td>1 Major</td> <td>3 GAF-5</td> </tr> <tr> <td>1 Capt.</td> <td>4 GAF-4</td> </tr> <tr> <td>1 1st Lt.</td> <td>4 GAF-3</td> </tr> <tr> <td>3 Officers</td> <td></td> </tr> <tr> <td></td> <td>11 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 14</td> </tr> </table>	1 Major	3 GAF-5	1 Capt.	4 GAF-4	1 1st Lt.	4 GAF-3	3 Officers			11 Civilian	Total Personnel 14		<p><b>FISCAL OFFICER</b></p> <table border="1"> <tr> <td>1 Major</td> <td>1 GAF-11</td> </tr> <tr> <td></td> <td>2 GAF-7</td> </tr> <tr> <td></td> <td>4 GAF-6</td> </tr> <tr> <td></td> <td>8 GAF-5</td> </tr> <tr> <td></td> <td>30 GAF-4</td> </tr> <tr> <td></td> <td>15 GAF-3</td> </tr> <tr> <td>1 Officer</td> <td></td> </tr> <tr> <td></td> <td>61 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 62</td> </tr> </table>	1 Major	1 GAF-11		2 GAF-7		4 GAF-6		8 GAF-5		30 GAF-4		15 GAF-3	1 Officer			61 Civilian	Total Personnel 62		<p><b>SECURITY AND INTELLIGENCE OFFICER</b></p> <table border="1"> <tr> <td>1 Major</td> <td>2 GAF-5</td> </tr> <tr> <td>1 1st Lt.</td> <td>2 GAF-4</td> </tr> <tr> <td>2 Officers</td> <td></td> </tr> <tr> <td></td> <td>9 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 11</td> </tr> </table>	1 Major	2 GAF-5	1 1st Lt.	2 GAF-4	2 Officers			9 Civilian	Total Personnel 11	
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<p><b>ASSIGNMENT</b></p> <table border="1"> <tr> <td>1 1st Lt.</td> <td>1 GAF-5</td> </tr> <tr> <td>2 GAF-4</td> <td></td> </tr> <tr> <td>1 Officer</td> <td>2 GAF-3</td> </tr> <tr> <td></td> <td>3 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 6</td> </tr> </table>	1 1st Lt.	1 GAF-5	2 GAF-4		1 Officer	2 GAF-3		3 Civilian	Total Personnel 6		<p><b>PLACEMENT</b></p> <table border="1"> <tr> <td>1 Capt.</td> <td>1 GAF-7</td> </tr> <tr> <td>1 Officer</td> <td>1 GAF-5</td> </tr> <tr> <td></td> <td>1 GAF-4</td> </tr> <tr> <td></td> <td>4 GAF-3</td> </tr> <tr> <td></td> <td>7 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 5</td> </tr> </table>	1 Capt.	1 GAF-7	1 Officer	1 GAF-5		1 GAF-4		4 GAF-3		7 Civilian	Total Personnel 5		<p><b>PROCESSING</b></p> <table border="1"> <tr> <td>1 GAF-5</td> <td></td> </tr> <tr> <td>6 GAF-3</td> <td></td> </tr> <tr> <td></td> <td>2 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 9</td> </tr> </table>	1 GAF-5		6 GAF-3			2 Civilian	Total Personnel 9	
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Total Personnel 9																																

**STORAGE**

1 1st Lt.	1 GAF-5
1 Officer	2 GAF-4
	3 GAF-3
	14 Civilian
Total Personnel 23	

<p><b>CORRESPONDENCE</b></p> <table border="1"> <tr> <td>1 1st Lt.</td> <td>1 GAF-5</td> </tr> <tr> <td></td> <td>2 GAF-4</td> </tr> <tr> <td></td> <td>4 GAF-3</td> </tr> <tr> <td>1 Officer</td> <td></td> </tr> <tr> <td></td> <td>7 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 8</td> </tr> </table>	1 1st Lt.	1 GAF-5		2 GAF-4		4 GAF-3	1 Officer			7 Civilian	Total Personnel 8		<p><b>LOCAL SELECTION</b></p> <table border="1"> <tr> <td>1 1st Lt.</td> <td>1 GAF-4</td> </tr> <tr> <td></td> <td>1 GAF-3</td> </tr> <tr> <td>1 Officer</td> <td></td> </tr> <tr> <td></td> <td>2 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 5</td> </tr> </table>	1 1st Lt.	1 GAF-4		1 GAF-3	1 Officer			2 Civilian	Total Personnel 5		<p><b>FIELD SELECTION</b></p> <table border="1"> <tr> <td>4 1st Lt.</td> <td>1 GAF-5</td> </tr> <tr> <td>14 2nd Lt.</td> <td>3 GAF-4</td> </tr> <tr> <td></td> <td>6 GAF-3</td> </tr> <tr> <td>10 Officers</td> <td></td> </tr> <tr> <td></td> <td>10 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 23</td> </tr> </table>	4 1st Lt.	1 GAF-5	14 2nd Lt.	3 GAF-4		6 GAF-3	10 Officers			10 Civilian	Total Personnel 23		<p><b>EMPLOYEE SERVICES</b></p> <table border="1"> <tr> <td>1 1st Lt.</td> <td>1 GAF-7</td> </tr> <tr> <td></td> <td>1 GAF-4</td> </tr> <tr> <td>1 Officer</td> <td></td> </tr> <tr> <td></td> <td>2 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 5</td> </tr> </table>	1 1st Lt.	1 GAF-7		1 GAF-4	1 Officer			2 Civilian	Total Personnel 5	
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<p><b>HEALTH AND RECREATION</b></p> <table border="1"> <tr> <td>1 GAF-5</td> <td></td> </tr> <tr> <td>1 GAF-4</td> <td></td> </tr> <tr> <td>2 GAF-3</td> <td></td> </tr> <tr> <td></td> <td>4 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 4</td> </tr> </table>	1 GAF-5		1 GAF-4		2 GAF-3			4 Civilian	Total Personnel 4		<p><b>HOUSING AND RATIONING</b></p> <table border="1"> <tr> <td>1 GAF-5</td> <td></td> </tr> <tr> <td>2 GAF-4</td> <td></td> </tr> <tr> <td>2 GAF-3</td> <td></td> </tr> <tr> <td></td> <td>5 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 5</td> </tr> </table>	1 GAF-5		2 GAF-4		2 GAF-3			5 Civilian	Total Personnel 5		<p><b>LEGAL ASSISTANCE</b></p> <table border="1"> <tr> <td>1 1st Lt.</td> <td>1 GAF-4</td> </tr> <tr> <td>1 Officer</td> <td></td> </tr> <tr> <td></td> <td>1 Civilian</td> </tr> <tr> <td colspan="2">Total Personnel 3</td> </tr> </table>	1 1st Lt.	1 GAF-4	1 Officer			1 Civilian	Total Personnel 3	
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1 Officer																														
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Total Personnel 3																														

**RECAPITULATION PERSONNEL**

	OFFICER	CIVILIAN
Colonel	1	P-3 1
Lt. Col.	1	GPC-11 2
Major	5	GAF-9 4
Captain	11	GAF-7 10
1st Lt.	19	GAF-6 9
2nd Lt.	30	GAF-5 41
Total	60	GAF-4 71
		GAF-3 91
		GPC-10 1
		GPC-8 1
		GPC-5 6
		GPC-4 12
		GPC-3 72
		GPC-2 107
		Magr. 24
<b>ENLISTED</b>		
Total	198	Total 458

TOTAL PERSONNEL 720

<p><b>MOTOR TRANSPORTATION OFFICER</b></p> <table border="1"> <tr> <td>1 1st Lt.</td> <td></td> </tr> <tr> <td>1 Officer</td> <td></td> </tr> <tr> <td>44 Enlisted</td> <td></td> </tr> <tr> <td colspan="2">Total Personnel 45</td> </tr> </table>	1 1st Lt.		1 Officer		44 Enlisted		Total Personnel 45		<p><b>POST TRANSPORTATION OFFICER</b></p> <table border="1"> <tr> <td>1 1st Lt.</td> <td>1 GAF-5</td> </tr> <tr> <td></td> <td>2 GAF-3</td> </tr> <tr> <td>1 Officer</td> <td></td> </tr> <tr> <td></td> <td>3 Civilian</td> </tr> <tr> <td>1 Enlisted</td> <td></td> </tr> <tr> <td colspan="2">Total Personnel 8</td> </tr> </table>	1 1st Lt.	1 GAF-5		2 GAF-3	1 Officer			3 Civilian	1 Enlisted		Total Personnel 8		<p><b>POST CHAPLAIN</b></p> <table border="1"> <tr> <td>1 Captain</td> <td></td> </tr> <tr> <td>1 Officer</td> <td></td> </tr> <tr> <td colspan="2">Total Personnel 1</td> </tr> </table>	1 Captain		1 Officer		Total Personnel 1		<p><b>POST EXCHANGE AND CAFETERIAS</b></p> <table border="1"> <tr> <td>1 Major</td> <td></td> </tr> <tr> <td>1 Captain</td> <td></td> </tr> <tr> <td>2 Officers</td> <td></td> </tr> <tr> <td>1 Enlisted</td> <td></td> </tr> <tr> <td colspan="2">Total Personnel 3</td> </tr> </table>	1 Major		1 Captain		2 Officers		1 Enlisted		Total Personnel 3		<p><b>POST DISPENSARY</b></p> <table border="1"> <tr> <td>1 Major</td> <td></td> </tr> <tr> <td>1 Captain</td> <td></td> </tr> <tr> <td>2 Officers</td> <td></td> </tr> <tr> <td>12 Enlisted</td> <td></td> </tr> <tr> <td colspan="2">Total Personnel 14</td> </tr> </table>	1 Major		1 Captain		2 Officers		12 Enlisted		Total Personnel 14		<p><b>POST ENGINEER</b></p> <table border="1"> <tr> <td>1 Captain</td> <td></td> </tr> <tr> <td>1 Officer</td> <td></td> </tr> <tr> <td colspan="2">Total Personnel 1</td> </tr> </table>	1 Captain		1 Officer		Total Personnel 1	
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1 Officer																																																									
Total Personnel 1																																																									

\* Independent allotment - included for administrative purposes but excluded from T/O  
 \*\* Excluded from T/O as independent units  
 \*\*\* Held by same officer

SECRET



TRAINING BRANCH  
ARLINGTON HALL STATION  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

~~SECRET~~

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

DIRECTOR OF TRAINING

1 Lt. Colonel	1 GAF-5
1 Major	1 GAF-4
	1 GAF-3
2 Officers	3 Civilians
Total Personnel	5

TRAINING CONTROL SECTION

1 Major	2 GAF-4
1 Captain	
8 1st Lts.	
8 2nd Lts.	
10 Officers	2 Civilians
Total Personnel	12

PERSONNEL CONTROL SECTION

1 Captain	1 GAF-4
1 2nd Lt.	3 GAF-3
2 Officers	4 Civilians
Total Personnel	6

CIVILIAN TRAINING SCHOOL

1 Captain	2 GAF-5
1 2nd Lt.	12 GAF-5
	1 GAF-4
	8 GAF-3
2 Officers	17 Civilians
Total Personnel	19

EXTENSION SCHOOL

1 1st Lt.	1 GAF-5
	2 GAF-4
1 Officer	3 Civilians
Total Personnel	4

PROPERTY AND SUPPLY SECTION

1 1st Lt.	1 GAF-5
1 Officer	1 Civilian
2 Enlisted	
Total Personnel	4

RECAPITULATION PERSONNEL

MILITARY	CIVILIAN
1 Lt. Col.	2 GAF-5
2 Majors	14 GAF-5
4 Captains	7 GAF-4
7 1st Lts.	7 GAF-3
8 2nd Lts.	
15 Officers	
2 Enlisted	32 Civilians
Total Personnel	55

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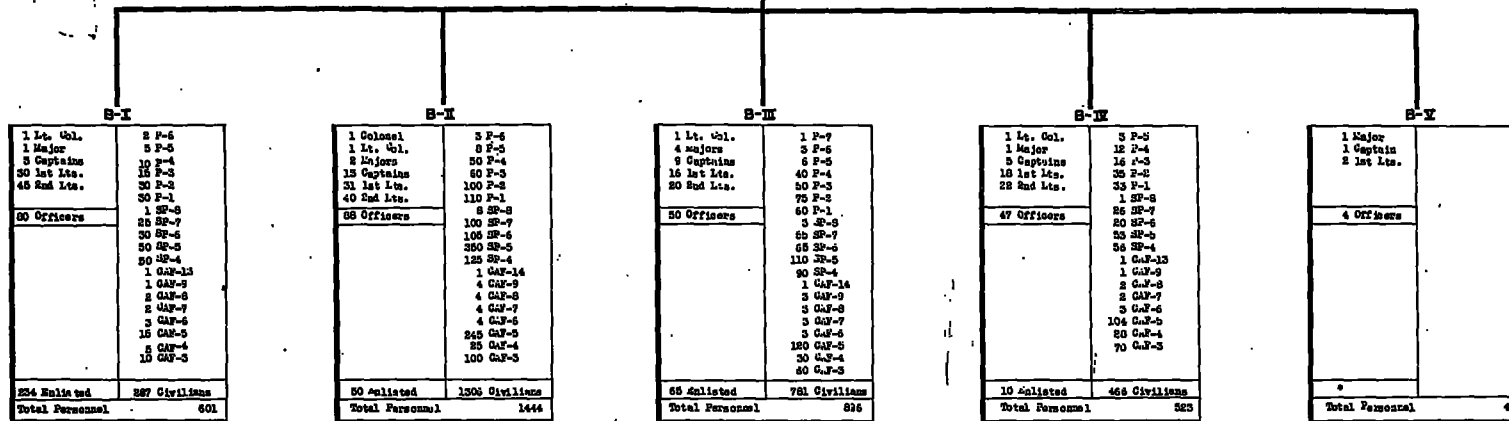
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B  
CRYPTANALYTIC BRANCH  
ARLINGTON HALL STATION  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

ADMINISTRATIVE	
1 Colonel	1 CAF-14
1 Lt. Col.	2 CAF-9
1 Major	1 CAF-8
1 Captain	1 CAF-7
3 1st Lts.	2 CAF-6
4 2nd Lts.	10 CAF-5
11 Officers	14 CAF-4
	14 CAF-3
10 Enlisted	46 Civilians
Total Personnel	66



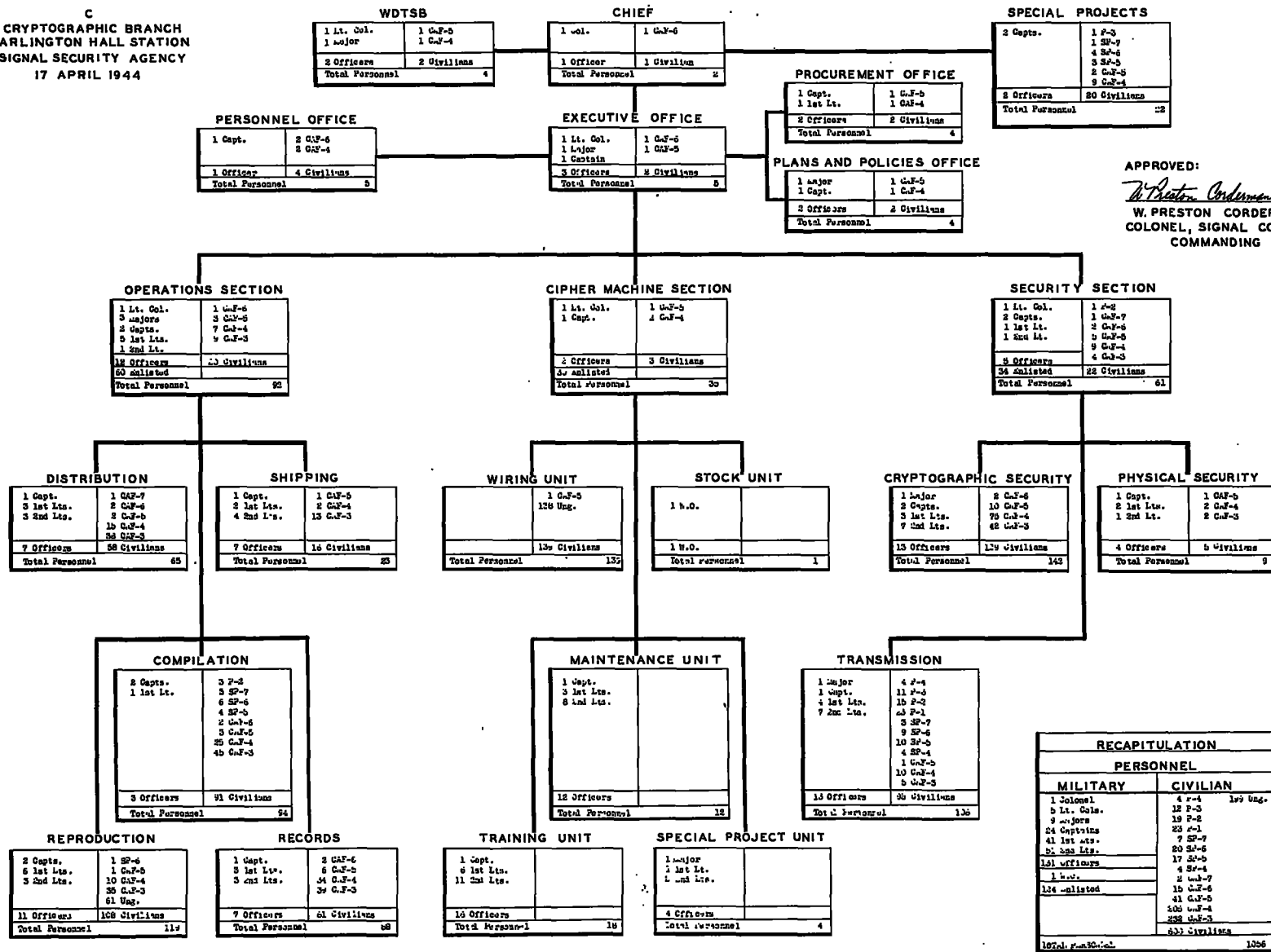
RECAPITULATION	
MILITARY	CIVILIAN
2 Colonels	1 P-7
2 Lt. Col.	2 P-6
10 Majors	22 P-5
32 Captains	112 P-4
100 1st Lts.	341 P-3
131 2nd Lts.	240 P-2
280 Officers	234 P-1
	13 SP-8
	206 SP-7
	223 SP-6
	462 SP-5
	321 SP-4
	3 CAF-14
	2 CAF-13
	11 CAF-9
	12 CAF-8
	18 CAF-7
	15 CAF-6
	454 CAF-5
	102 CAF-4
	254 CAF-3
269 Enlisted	2825 Civilians
Total Personnel	3104

\* 40 Enlisted Personnel from B-5 located at Vint Hill and assigned to that station.

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C  
CRYPTOGRAPHIC BRANCH  
ARLINGTON HALL STATION  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

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APPROVED:

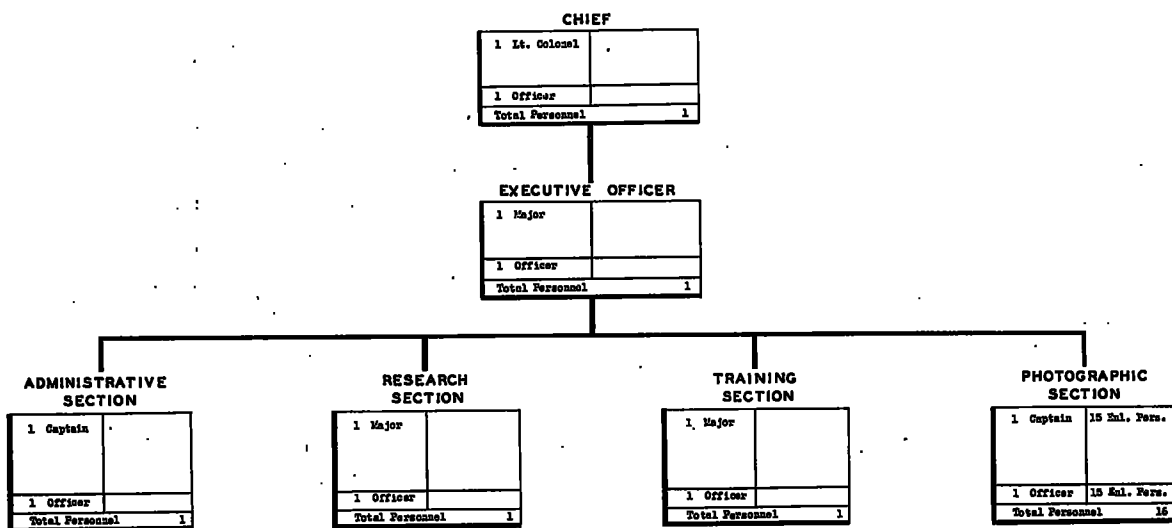
*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

~~SECRET~~

D  
LABORATORY BRANCH  
ARLINGTON HALL STATION  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING



RECAPITULATION	
PERSONNEL	
OFFICER	ENLISTED
1 Lt. Colonel	15 Enl. Pers.
3 Majors	
2 Captains	
5	15
Total Personnel	21

~~SECRET~~

E  
COMMUNICATIONS BRANCH  
ARLINGTON HALL STATION  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

CHIEF	
1 Colonel	1 CAP-5
1 Officer	1 Civilian
Total Personnel 2	

EXECUTIVE OFFICER	
1 Major	1 CAP-4
1 Officer	1 Civilian
Total Personnel 2	

ADMINISTRATION	
1 Captain	2 CAP-5 4 CAP-4 2 CAP-3
1 Officer	8 Civilian
Total Personnel 9	

OPERATIONS AND TRAINING	
1 Lt. Col.	1 CAP-5
1 1st Lt.	
2 Officers	1 Civilian
Total Personnel 3	

TRAFFIC	
1 Lt. Col.	1 CAP-5
1 Captain	
2 Officers	1 Civilian
Total Personnel 3	

ENGINEERING	
	1 P-5 1 CAP-4
Total Personnel 2 3 Civilian	

CONTROL	
1 Lt. Col.	1 CAP-7
1 Major	2 CAP-4
2 Officers	3 Civilian
Total Personnel 5	

FIELD UNITS	
1 Major	1 CAP-4
1 Captain	1 CAP-3
1 1st Lt.	
1 2nd Lt.	
4 Officers	2 Civilian
Total Personnel 6	

FIXED UNITS	
1 Captain	1 CAP-4
1 1st Lt.	1 CAP-3
1 2nd Lt.	
3 Officers	2 Civilian
Total Personnel 5	

MESSAGE CENTER	
1 Captain	3 CAP-7
2 1st Lts.	3 CAP-5
2 2nd Lts.	12 CAP-5
3 Officers	72 CAP-4
1 W.O.	3 CAP-3
2 Enlisted	92 Civilian
Total Personnel 100	

RECORDS AND DISTRIBUTION	
1 Captain	1 CAP-7
1 1st Lt.	2 CAP-6
1 2nd Lt.	10 CAP-5
3 Officers	38 CAP-4
	22 CAP-3
83 Civilian	
Total Personnel 86	

DEVELOPMENT	
1 Major	1 P-5
1 Captain	1 CAP-3
3 1st Lts.	1 CAP-4
3 2nd Lts.	
5 Officers	
1 Enlisted	3 Civilian
Total Personnel 12	

DESIGN AND INSTALLATION	
1 Major	2 P-4
1 Captain	1 P-3
3 1st Lts.	1 CAP-4
3 2nd Lts.	1 CAP-3
8 Officers	
6 Civilian	
Total Personnel 15	

DIRECTIVES	
1 Captain	1 CAP-5
3 1st Lts.	2 CAP-4
3 2nd Lts.	3 CAP-3
7 Officers	
6 Civilian	
Total Personnel 13	

WAVE PROPAGATION	
1 Captain	2 P-2
1 2nd Lt.	2 P-1
2 Officers	2 CAP-4
6 Civilian	
Total Personnel 6	

TRAINING	
1 Major	1 CAP-4
1 Captain	1 CAP-3
2 1st Lts.	
2 2nd Lts.	
4 Officers	2 Civilian
Total Personnel 6	

TELETYPE	
1 Captain	
1 1st Lt.	
1 2nd Lt.	
4 Officers	
24 Enlisted	
Total Personnel 31	

DRAFTING	
	2 SP-7
	2 SP-6
	1 SP-5
	1 CAP-4
1 Enlisted	
6 Civilian	
Total Personnel 9	

REQUIREMENTS	
1 Captain	1 SP-6
1 2nd Lt.	2 SP-5
2 Officers	1 CAP-3
4 Civilian	
Total Personnel 6	

DIRECTION FINDING	
	1 CAP-7
	1 CAP-6
	4 CAP-5
	2 CAP-4
	2 CAP-3
6 Civilian	
Total Personnel 6	

TRAFFIC EXCHANGE	
1 1st Lt.	1 CAP-5
	5 CAP-4
	19 CAP-3
1 Officer	
26 Civilian	
Total Personnel 36	

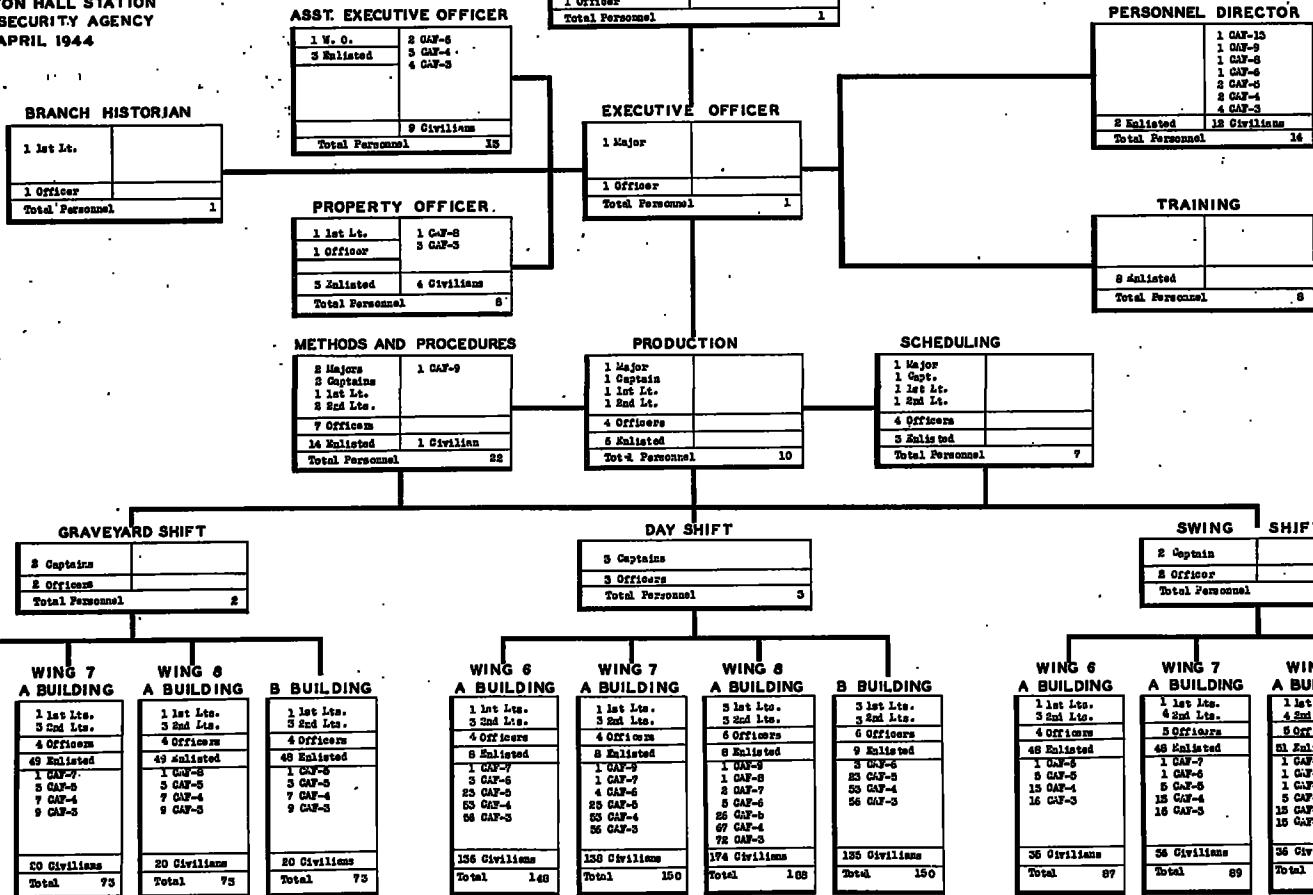
RECAPITULATION PERSONNEL	
OFFICER	CIVILIAN
1 Colonel	1 P-5
3 Lt. Col.	1 P-3
6 Majors	2 P-4
14 Captains	1 P-1
1 1st Lt.	3 P-2
23 2nd Lts.	2 P-1
68 Officers	2 SP-7
1 W.O.	3 SP-6
	3 SP-5
	6 CAP-7
	1 CAP-6
102 Enlisted Pers.	21 CAP-5
	22 CAP-4
	92 CAP-3
132 Enlisted Pers.	326 Civilian
Total Personnel 527	

INFORMATION	
1 Captain	1 P-2
2 1st Lts.	2 CAP-5
3 2nd Lts.	18 CAP-4
6 Officers	71 CAP-3
2 Enlisted	46 CAP-2
135 Civilian	
Total Personnel 143	



~~SECRET~~  
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**G**  
MACHINE BRANCH  
ARLINGTON HALL STATION  
SIGNAL SECURITY AGENCY  
17 APRIL 1944



APPROVED:  
*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

RECAPITULATION		
PERSONNEL		
OFFICERS	ENLISTED	CIVILIANS
1 Lt. Col.	465 Enlisted	1 GAF-13
5 Majors		4 GAF-9
11 Captains		5 GAF-8
21 1st Lt.		7 GAF-7
45 2nd Lt.		24 GAF-6
1 W.O.		128 GAF-5
		311 GAF-4
		349 GAF-3
22 Officers	465 Enlisted	830 Civilians
Total Personnel		1395

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**I & L  
INFORMATION AND LIAISON  
BRANCH  
ARLINGTON HALL STATION  
SIGNAL SECURITY AGENCY  
17 APRIL 1944**

**EXECUTIVE ASSISTANTS**

	1 P-3 1 GAF-7 1 GAF-3
	3 Civilians
Total Personnel	3

**CHIEF**

	1 Lt. Col.
	1 Officer
Total Personnel	1

**SURVEY OF SYSTEMS**

	1 P-3 1 P-2 1 P-1 2 SP-6 1 GAF-4
1 Enlisted	6 Civilians
Total Personnel	7

APPROVED:

*W. Preston Corderman*  
**W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING**

**LIAISON**

	7 SP-7 2 GAF-4 3 GAF-3
	12 Civilians
Total Personnel	12

**EXECUTIVE OFFICER**

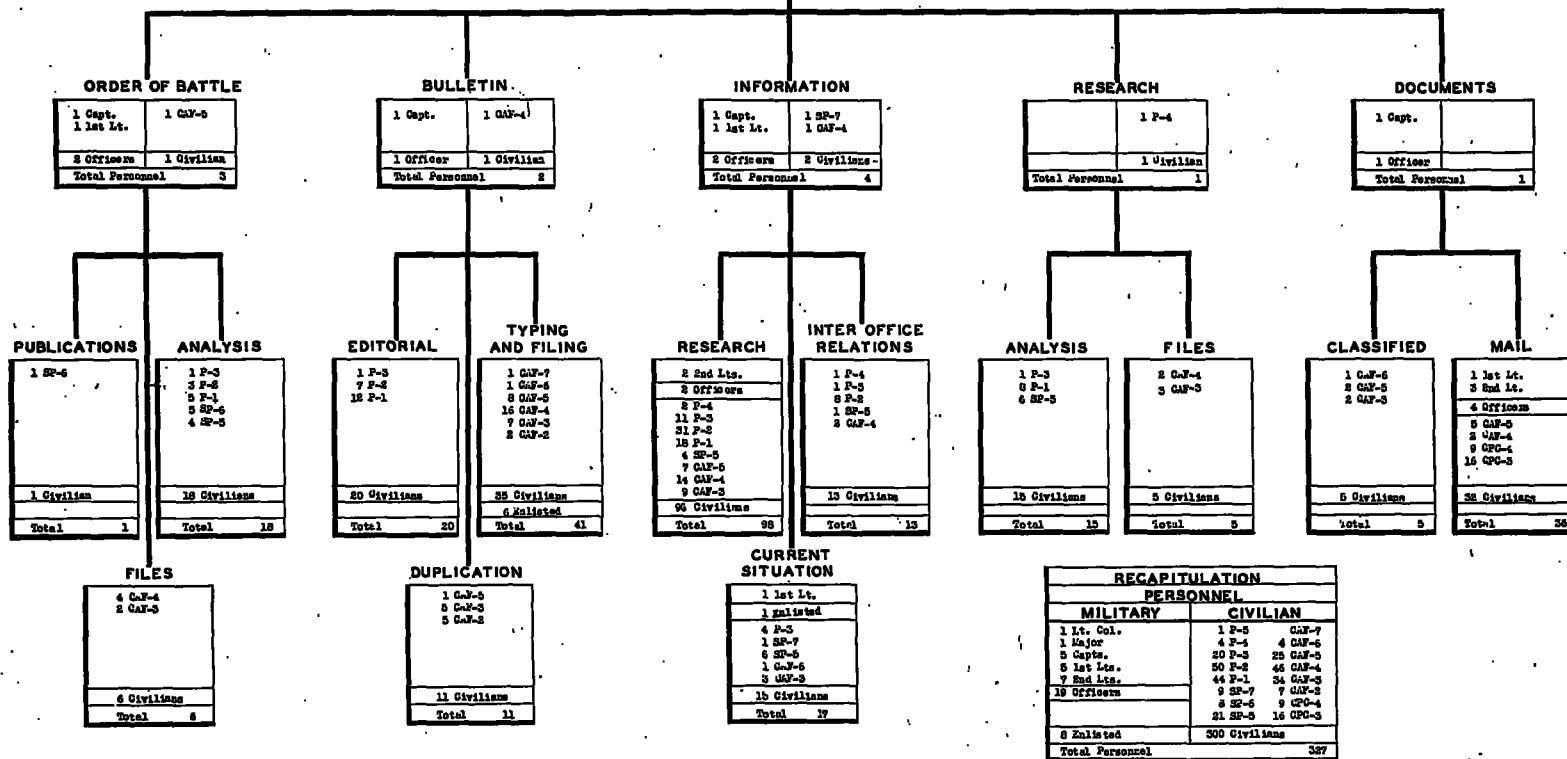
	1 Major 1 Officer
Total Personnel	1

**SPECIAL SERVICES**

1 Captain	1 GAF-6 1 GAF-4
1 Officer	2 Civilians
Total Personnel	3

**NIGHT DUTY OFFICER**

	1 1st Lt. 2 2nd Lt.
	5 Officers
Total Personnel	3



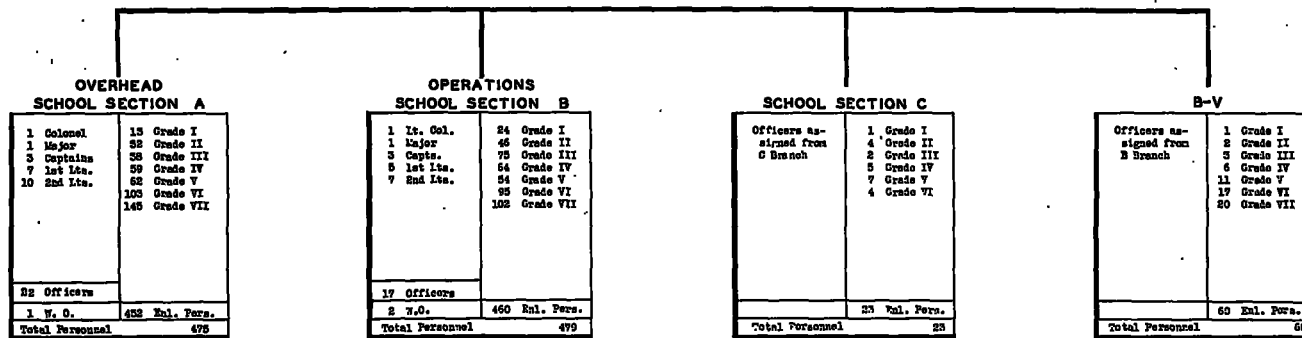
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VINT HILL FARMS STATION  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING



RECAPITULATION PERSONNEL	
OFFICER	ENLISTED
1 Colonel	39 Grade I
1 Lt. Col.	84 Grade II
2 Majors	118 Grade III
6 Captains	154 Grade IV
12 1st Lts.	134 Grade V
17 2nd Lts.	219 Grade VI
	257 Grade VII
32 Officers	
1 W.O.	925 Enl. Pers.
Total Personnel	1337

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TWO ROCK RANCH  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

APPROVED:  
*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

OVERHEAD		OPERATIONS	
1 Lt. Col.	3 Grade I	1 Major	21 Grade I
1 Major	4 Grade II	2 Captains	44 Grade II
1 Captain	8 Grade III	4 1st Lts.	70 Grade III
2 1st Lt.	14 Grade IV	7 2nd Lts.	60 Grade IV
1 2nd Lt.	23 Grade V		53 Grade V
	26 Grade VI		94 Grade VI
	56 Grade VII		102 Grade VII
6 Officers		14 Officers	
1 W.O.	194 Enl. Pers.	2 W.O.	443 Enl. Pers.
Total Personnel 141		Total Personnel 459	

RECAPITULATION	
PERSONNEL	
OFFICER	ENLISTED
1 Lt. Col.	24 Grade I
2 Majors	48 Grade II
3 Captains	70 Grade III
6 1st Lts.	74 Grade IV
8 2nd Lts.	75 Grade V
	120 Grade VI
	150 Grade VII
20 Officers	
3 W.O.	577 Enl. Pers.
Total Personnel 600	

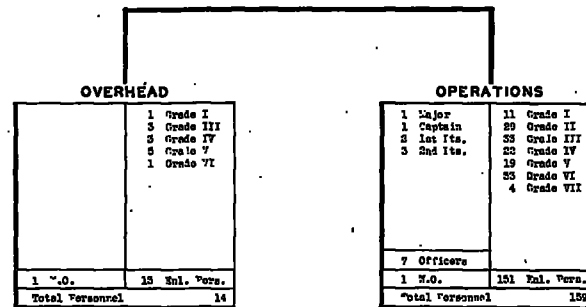
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FORT SHAFTER  
TERRITORY OF HAWAII  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING



RECAPITULATION	
PERSONNEL	
OFFICER	ENLISTED
1 Major	12 Grade I
1 Captain	29 Grade II
2 1st Lts.	26 Grade III
3 2nd Lts.	23 Grade IV
	24 Grade V
	23 Grade VI
	4 Grade VII
7 Officers	
2 W. O.	151 Enl. Pers.
Total Personnel	173

~~SECRET~~

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RESEDA  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

OPERATIONS	
	2 Grade I
	2 Grade III
	4 Grade IV
	2 Grade V
	2 Grade VI
1 W.O.	18 Enl. Pers.
Total Personnel 19	

SAN FRANCISCO  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

HEADQUARTERS  
WESTERN TRAFFIC CENTER

Officers assigned  
from 2 Branch

BELLMORE  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

OPERATIONS	
	2 Grade I
	2 Grade III
	4 Grade IV
	2 Grade V
	2 Grade VI
1 W.O.	18 Enl. Pers.
Total Personnel 23	

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

COMMUNICATIONS	
1 Captain	2 Grade I
1 1st Lt.	8 Grade VII
1 2nd Lt.	18 Grade IV
	19 Grade V
	10 Grade VI
	5 Grade VII
3 Officers	
	59 Enl. Pers.
Total Personnel 62	

DISTRIBUTION	
	1 Grade I
	2 Grade II
	5 Grade III
	5 Grade IV
	5 Grade V
1 W.O.	14 Enl. Pers.
Total Personnel 25	

RECAPITULATION PERSONNEL	
OFFICER	ENLISTED
1 Captain	5 Grade I
1 1st Lt.	2 Grade II
1 2nd Lt.	18 Grade III
	18 Grade IV
	22 Grade V
	10 Grade VI
	5 Grade VII
3 Officers	
1 W.O.	73 Enl. Pers.
Total Personnel 77	

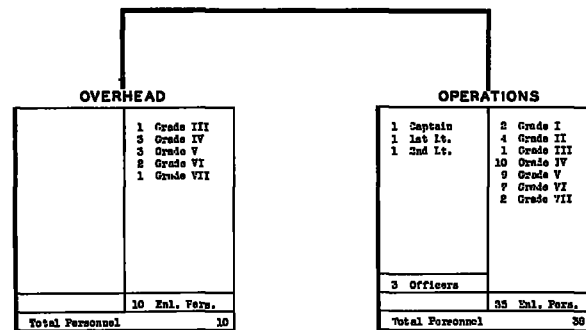
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SECRET

AMCHITKA, ALASKA  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING



RECAPITULATION	
PERSONNEL	
OFFICER	ENLISTED
1 Captain	2 Grade I
1 1st Lt.	4 Grade II
1 2nd Lt.	2 Grade III
	13 Grade IV
	16 Grade V
	9 Grade VI
	3 Grade VII
3 Officers	45 Enl. Pers.
Total Personnel	48

SECRET

SECRET

ASMARA, ERITREA  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

## OPERATIONS

1 Captain	7 Grade I
2 1st Lts.	9 Grade II
2 2nd Lts.	13 Grade III
	15 Grade IV
	10 Grade V
	14 Grade VI
	2 Grade VII
5 Officers	
1 H.Q.	70 Enl. Pers.
Total Personnel 76	

FAIRBANKS, ALASKA  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

## OPERATIONS

1 1st Lt.	3 Grade I
1 2nd Lt.	4 Grade II
	4 Grade III
	10 Grade IV
	6 Grade V
	9 Grade VI
	3 Grade VII
2 Officers	
1 H.Q.	41 Enl. Pers.
Total Personnel 44	

NEW DELHI, INDIA  
SIGNAL SECURITY AGENCY  
17 APRIL 1944

## OPERATIONS

1 Captain	3 Grade I
1 1st Lt.	4 Grade II
1 2nd Lt.	6 Grade III
	10 Grade IV
	6 Grade V
	9 Grade VI
	3 Grade VII
3 Officers	
1 H.Q.	41 Enl. Pers.
Total Personnel 44	

APPROVED:

*W. Preston Corderman*  
W. PRESTON CORDERMAN  
COLONEL, SIGNAL CORPS  
COMMANDING

SECRET

OCSigO 311.5-General  
(2-25-42)

AC-3

322.08 SCORG

February 25, 1942.

10-7/2

MEMORANDUM FOR: Officer in Charge, Army Communications Branch.

SUBJECT: Organization of Signal Intelligence Service.

1. Reference is had to Office Memorandum No. 29, February 20, 1942. As required in paragraph two of cited memorandum there are enclosed herewith: (Incl. 1) a table of organization, S.I.S., and (Incl. 2) job sheets covering the duties of all officers now assigned to S.I.S.

2. Careful consideration has been given to the objective as announced in paragraph 1 a in above cited memorandum. It is the belief of the Officer in Charge, Signal Intelligence Service that the policy of replacing military personnel by civilians should not be applied to this organization in the manner designated for other divisions of the OCSigO. This belief is predicated upon the following facts:

a. The Signal Intelligence Service is a field activity. While it is assigned to the Office of the Chief Signal Officer for administrative control, it operates directly with and for the field forces in addition to the War Department. It is at the present time functioning as the Signal Intelligence Service for the commander of the field forces and as such has more the nature of a tactical organization than of a War Department overhead unit. Consequently, it must primarily be an organization of distinctly military character not only guided but actually operated by military personnel. Civilians can be employed in many capacities for purely technical or clerical duties. They constitute a permanent War Department force and are not subject to transfer to field duty when and where needed as the military personnel.

b. The Signal Intelligence Service must be so organized as to be able to furnish on short notice a comparatively large group for special field service. Such a demand will undoubtedly be made to serve the commander of a major expeditionary force capable of exerting a major offensive effort in the prosecution of the war. Certain personnel responsibilities and duties of this office would then be transferred to

See 320.3 Gen



this field group. Major efforts may be made in more than one theater necessitating in each case a competent signal intelligence service. The training of the personnel to form these large special services cannot be accomplished in a brief period nor can inexperienced personnel be arbitrarily assigned to such duty. Group training, rather than individual, is also essential. This training consisting of actual performance in the work now a responsibility of this office is being given in the Signal Intelligence Service. It must continue to be given and additional military personnel must be procured and trained in order to meet the demand for supplying a highly trained group of adequate strength for oversea assignment. Signal Intelligence military personnel for Armies, Air Forces and smaller units are being trained at Signal Corps School.

c. It is to be noted that many of the officers assigned to S.I.S. duty are not suitable for other Signal Corps assignments. They have been selected for this special duty because their education, experience and aptitude fit them for such assignment. In most cases these qualifications are of little or no value for other Signal Corps duty. Consequently, a reduction in S.I.S. military personnel would not necessarily release such personnel for immediate assignment to other Signal Corps duties in the field.

d. Because of the highly specialized training and unquestioned loyalty and integrity required, competent civilians to replace key military personnel cannot be immediately procured. Many of the civilians of the S.I.S. have necessarily been called to active duty and are performing that duty in the S.I.S. Their places cannot be filled competently by civilians since many of them have had ten years or more training in cryptanalysis. Their call to active duty, on the other hand, is mandatory and if they were not retained on S.I.S. duty they would not be available for the type of service for which they are particularly trained.

e. Since as stated in paragraph 2 a above, the Signal Intelligence Service deals directly with the field it must maintain a twenty-four hour schedule in some of its activities. Military personnel must be available to provide reliefs for three shifts in some sections while in others two shifts suffice. Certain duplications in assignment are therefore unavoidable.

3. Approval of the table of organization submitted herewith is recommended. In view of the facts set forth in paragraph 2, it is believed that the military personnel assigned to S.I.S. instead of being reduced from present strength should be authorized the total of 90 officers and 176 enlisted men. This strength of military personnel is the same as that recommended recently in compliance with instructions.

R. W. Minckler,  
Lt. Col., Signal Corps.

\*321\*

IN REPLY  
REFER TOOCSigO 311.5-General  
(5-1-42)WAR DEPARTMENT  
OFFICE OF THE CHIEF SIGNAL OFFICER  
WASHINGTON

SPSIS

May 1, 1942.

MEMORANDUM FOR: Chief Signal Officer THRU Chief, Army Communications  
Branch.

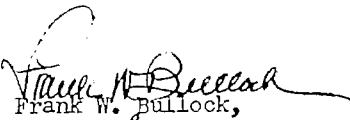
1. The attached schematic chart marked Draft No. 1 representing a tentative plan of organization for the Signal Intelligence Service (major functional divisions only) is submitted for comment and/or approval.

2. Upon approval of general structure and functional arrangement, detailed tables of organization and individual recommendations covering the allocation, assignment and promotion of officers for key positions will be submitted.

3. The above-mentioned study proceeds from two assumptions:

(1) That the Signal Intelligence is to undertake an immediate physical expansion of considerable magnitude, and

(2) that the Signal Intelligence Service shall be reconstructed into a fully integrated permanent establishment.

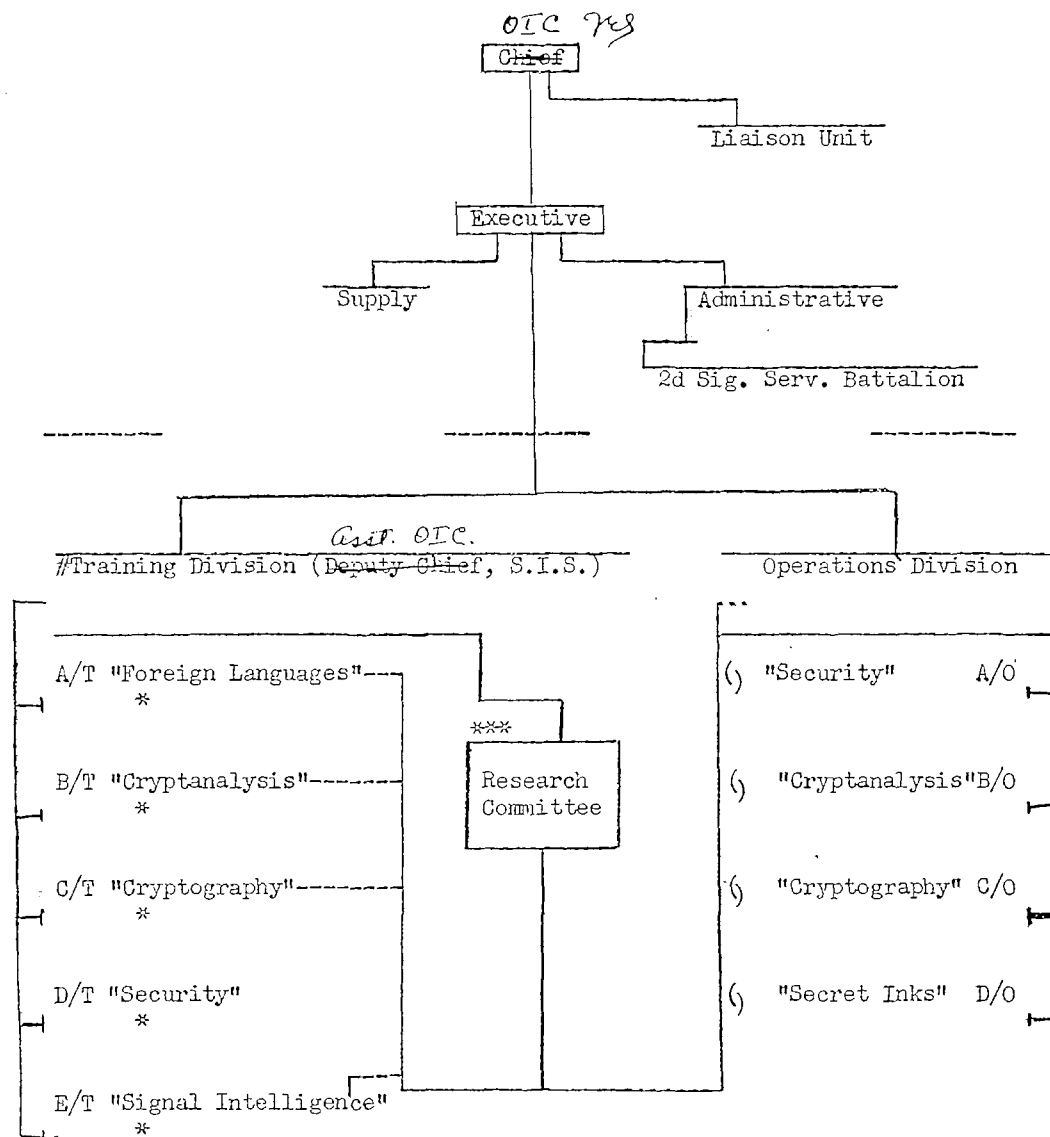
  
Frank W. Bullock,  
Colonel, Signal Corps.

Attached:  
Draft No. 1.



TENTATIVE ORGANIZATION

Signal Intelligence Service



*Asst. OIC.*  
#Deputy Chief, S.I.S.

\*Section Heads to be selected by the Director.

\*\*\*Composed of the Director, Senior instructors and one consulting representative from Operations Division.

( ) Operating Subsections, until otherwise directed, will continue as now organized.

1-3571

OCSigO 311.5 - General  
(5-1-42)

1st Memo Ind.

SPSAC

War Department, OCSigO, Washington, May 5, 1942. To: Deputy Chief Signal Officer.

1. It is recommended that the attached tentative organization of the Signal Intelligence Service be approved.

2. This organization is made necessary by the G-2 directive which requires approximately 100% expansion of our Signal Intelligence Service. It is set up on two functional requirements - training and operations, and will enable the Signal Corps to efficiently handle all of the requirements in the above referred to directive.

*Frank E. Stoner*  
Frank E. Stoner,  
Brigadier General, U. S. Army.

1 Incl - n/c.

SPSBO 311.5 - General  
(5-1-42)

2nd Memo Ind.

SPSBO

War Department, Executive Office, OCSigO, Washington, May 6, 1942 -  
To: Chief, Army Communications Branch.

The tentative organization of the Signal Intelligence Service as indicated on the attached chart is approved with the following exceptions:

The head of the Service will be known as the Officer in Charge instead of Chief, and the Deputy Chief will be known as the Assistant Officer in Charge rather than Deputy Chief.

By order of the Chief Signal Officer:

*M. D. Hamlin*  
M. D. Hamlin,  
Lt. Col., Signal Corps,  
Assistant Executive.

1 Incl - n/c

Handwritten notes on the right margin: "from 311.5 (S.A. Organization) (5/1/42) (20/1/42)"

~~SECRET~~

SPSIS 311.5-General  
(6-24-42)

June 25, 1942

Designation of Exempted Stations at  
Arlington Hall, Virginia and Vint Hill Farms,  
Virginia.

Commanding General, Services of Supply

1. Two properties have been obtained to provide locations for  
the Signal Intelligence Service and its associated activities as  
follows:

a. Arlington Hall, Virginia, consisting of approximately  
100 acres in Arlington County, Virginia, to provide  
necessary location and space for all operating and  
training activities of the Signal Intelligence Service  
now performed under the immediate control of the Chief  
Signal Officer.

b. Vint Hill Farms, Virginia, consisting of approximately  
720 acres in Prince William and Fauquier Counties,  
Virginia, to provide an area for the construction and  
operation of an extensive radio installation for radio  
intelligence purposes. The installation at Vint Hill  
will be operated by the Second Signal Service Battalion  
under direct supervision of the Officer in Charge,  
Signal Intelligence Service.

2. It is requested that the installations at Arlington Hall  
and Vint Hill Farms be designated as exempted stations under direct  
control of the Chief Signal Officer, with designations as follows:

Arlington Hall Station, Va.  
Vint Hill Farms Station, Va.

*Handwritten note:*  
Remitted their request  
and made a offer

*Handwritten note:*  
Please see the  
Station in  
Virginia and Secret  
Authentication on this

James A. Code, Jr.  
Brigadier General, U. S. Army,  
Deputy Chief Signal Officer.

SO Act 6-24-42

*Handwritten initials:* JAC

~~SECRET~~

~~SECRET~~

I concur:

*Frank E. Stoner*  
 \_\_\_\_\_  
 Frank E. Stoner,  
 Brigadier General, U. S. A.

\_\_\_\_\_  
 James A. Code, Jr.,  
 Brigadier General, U. S. A.,  
 Deputy Chief Signal Officer.

\_\_\_\_\_  
 Dawson Olmstead,  
 Major General,  
 Chief Signal Officer of the Army.

\_\_\_\_\_  
 George V. Strong,  
 Major General,  
 A. C. of S., G-2.

*initials had to be placed on original  
 copy - per General Code,  
 My Blackman desires to type this*

~~SECRET~~

~~SECRET~~

~~SECRET~~

COPY NO 53

WAR DEPARTMENT  
The Adjutant General's Office  
Washington

July 8, 1942.

AG 322.08 (6-25-42)  
MR-M-SP

SUBJECT: Designation of Arlington Hall Station  
and Vint Hill Farms Station, Virginia.

TO: Chief Signal Officer.

.....  
: SECRET :  
: Auth: T. A. G. :  
: Initials: ATA :  
: Date 7-8-42. :  
:.....

Executive Office Copy  
Copies to  
Info Copies to  
STW

The Signal Intelligence Service installations at Arlington Hall and Vint Hill Farms, Virginia, are designated as Arlington Hall and Vint Hill Farms Stations, Virginia, and classified as exempted stations under your control.

By order of the Secretary of War:

Adjutant General.

Copies furnished:

- Commanding Generals,  
Army Ground Forces,  
Services of Supply,  
Eastern Defense Command,  
Third Corps Area.
- Divisions of the War Department  
General Staff.
- Publication Branch, A. G. O.
- Chief, Statistics Branch,  
General Staff.

AG 322.08  
+ 322 (V.H.) (m)  
(July 1942)

SECRET

~~SECRET~~

*Wm. D. Hamlin*

SPSEO-1

July 25, 1942.

*376*  
OFFICE MEMORANDUM NO. 181.

FOR ALL SERVICES, DIVISIONS, AND BRANCHES.

There is hereby formed, as a field agency of the Office of the Chief Signal Officer, the Signal Security Service.

*376*  
*X*

By order of the Chief Signal Officer:

/s/ Wm. D. HAMLIN,  
Wm. D. Hamlin,  
Lt. Col., Signal Corps,  
Director of Administration.



321.12  
Army C. Div.

SPSEO-1

WAR DEPARTMENT  
Headquarters, Services of Supply  
Office of the Chief Signal Officer  
Washington, D. C.

March 2, 1943.

OFFICE MEMORANDUM NO. 34.

FOR ALL SERVICES, DIVISIONS AND BRANCHES

Subject: Organization, OCSigO.

1. Effective today, there is activated in the Signal Operating Services, OCSigO, the Signal Security Division. The Director, Signal Security Division, will be responsible to the Chief Signal Officer through the Chief, Signal Operating Services.

2. The functions, personnel, military and civilian personnel allotments, equipment, furniture and fixtures, of Signal Security Branch and Protective Security Branch, Army Communications Division, Signal Operating Services, are transferred to Signal Security Division.

3. The Signal Security Branch and Protective Security Branch, Army Communications Division, Signal Operating Services, are abolished.

4. Signal Security Division is assigned the five-letter symbol SPSIS.

5. The five-letter symbol SPSAP, previously assigned to Protective Security Branch, is cancelled.

By order of the Chief Signal Officer:

/s/ WM. D. HAMLIN  
Wm. D. Hamlin,  
Colonel, Signal Corps,  
Executive.

311.5-General

HEADQUARTERS ARLINGTON HALL STATION

OFFICE OF THE COMMANDING OFFICER

March 26, 1943

ARLINGTON, VA.

MEMORANDUM NO. 7.

Subject: Reorganization.

To: Branch Chiefs, Arlington Hall Station, Arlington, Va.

The following information concerning the new organization within the Signal Security Division is furnished for the guidance of all concerned:

<u>New Designation</u>	<u>Branch Chief</u>	<u>Former Designation</u>
Headquarters Branch	Major J. E. Slack	A. Section
Protective Security Branch (A)	Major L. C. Sheets	Protective Security Branch
Cryptanalytic Branch (B)	Col. Harold Doud	B Section
Cryptographic Branch (C)	Col. E. F. Cook	C Section
Laboratory Branch (D)	Lt. Col. A. J. McGrail	D Section
Communications Branch (E)	Major H. McD. Brown	E Section
Development Branch (F)	Major Leo Rosen	F Section
Director of Communications Research	Mr. W. F. Friedman	Director of Communications Research
Acting Director of Training	Major F. B. Rowlett	--

By order of Colonel Gorderman:

Distribution:

Colonel Doud	Major Rowlett
Lt. Col. McGrail	Major Rosen
Lt. Col. Cook	Major Sheets
Major Brown	Major Lewis
Major Slack	Mr. Friedman

James F. Best, Jr.,  
1st Lt., Signal Corps,  
Adjutant.

~~SECRET~~SECRET  
By Authority of  
Chief Signal Officer  
Initials DateARMY SERVICE FORCES  
Signal Security Agency  
Washington 25, D. C.*SC* 5 Oct 44

SPSIS 311.5

SPSIS-1

5 October 1944

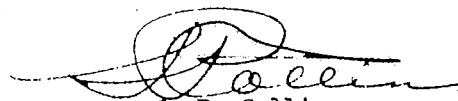
OPERATIONS INSTRUCTIONS NO. 16

Subject: Standing Operating Procedure -- Organization

1. The Signal Security Agency "Standing Operating Procedure -- Organization" is published for the information and guidance of all concerned. It supersedes any previous instructions disseminated within the Signal Security Agency in conflict with the information contained herein.

2. This publication becomes effective upon receipt.

By order of Colonel Corderman:

S. P. Collins  
Colonel, Signal Corps  
Assistant Commandant~~SECRET~~

~~RESTRICTED~~*Historical Unit*HEADQUARTERS  
ARMY SECURITY AGENCY  
Washington 25, D. C.

WDGSS-11

27 September 1945

MEMORANDUM NO. 29

SUBJECT: Administrative Procedures, Army Security Agency

TO: All Organizations and Units

1. Announcement is made of the establishment of Army Security Agency, effective 15 September 1945. All personnel and activities of Signal Security Agency and Second Signal Service Battalion are transferred to Army Security Agency effective this date. Headquarters of Army Security Agency is established at Arlington Hall Station.

2. The letterhead for Army Security Agency correspondence is

HEADQUARTERS  
ARMY SECURITY AGENCY  
Washington 25, D. C.

3. Until printed stationery becomes available the letterhead shown in paragraph 2 above will be typed on plain bond paper.

4. Stationery bearing the letterheads ARMY SERVICE FORCES, OFFICE OF THE CHIEF SIGNAL OFFICER, WASHINGTON 25, D. C., and ARMY SERVICE FORCES, SIGNAL SECURITY AGENCY, WASHINGTON 25, D. C. will not be used for Army Security Agency correspondence. Existing stocks of such stationery will be returned immediately to the Supply Branch for salvage.

5. Correspondence to be signed by the Chief of Army Security Agency will be prepared with the following signature:

W. PRESTON CORDERMAN  
Brigadier General, USA  
Commanding

6. The command line for Army Security Agency correspondence not signed by the Chief of Army Security Agency will be:

FOR THE CHIEF, ARMY SECURITY AGENCY:

The command line on correspondence formerly signed by authority of the Chief Signal Officer will henceforth read:

FOR THE CHIEF, ARMY SECURITY AGENCY:

~~RESTRICTED~~

~~RESTRICTED~~

WDGSS-11 (27 Sep 45)

7. Existing procedures for the preparation of Second Signal Service Battalion correspondence remain unchanged.

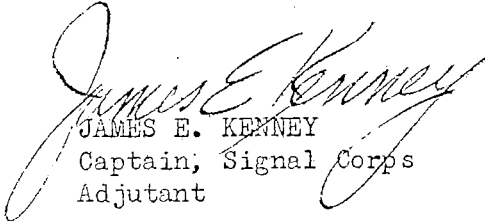
8. The correspondence symbol for Army Security Agency is WDGSS. This symbol replaces SPSIS (and other SPS- symbols) formerly used. New correspondence symbols for the units of Army Security Agency are shown in Inclosure 1.

9. The mailing address for Army Security Agency is:

Chief, Army Security Agency  
The Pentagon  
Washington 25, D. C.

BY COMMAND OF BRIGADIER GENERAL CORDERMAN:

1 Incl  
List of correspondence  
symbols for units of  
Army Security Agency

  
JAMES E. KENNEY  
Captain, Signal Corps  
Adjutant

DISTRIBUTION

"B"

~~RESTRICTED~~

RESTRICTEDCORRESPONDENCE SYMBOLS, ARMY SECURITY AGENCY

<u>Office</u>	<u>Symbol</u>
Chief, Army Security Agency	WDGSS-10
Executive Office, Army Security Agency	WDGSS-11
Adjutant, Army Security Agency	WDGSS-11
Chief, Plans and Policies Staff	WDGSS-12
OIC, Historical Unit	WDGSS-13
Director of Communications Research	WDGSS-14
Control Officer	WDGSS-15
Fiscal Officer	WDGSS-16
Administrative Officer	WDGSS-20
Second Signal Service Battalion	WDGSS-60
Chief, Personnel and Training Division	WDGSS-40
Chief, Personnel Branch	WDGSS-41
Chief, Training Branch	WDGSS-42
Chief, Officer Personnel Section	WDGSS-43
Chief, Operating Services Division	WDGSS-50
Chief, Communications Branch	WDGSS-51
Chief, Laboratory Branch	WDGSS-52
Chief, Machine Branch	WDGSS-53
Chief, Supply Branch	WDGSS-54
Chief, Security Division	WDGSS-80
Plans and Operations Staff, Security Division	WDGSS-81
Chief, Cryptographic Materiel Branch	WDGSS-82
Chief, Communications Security Branch	WDGSS-83
Chief, Protective Security Branch	WDGSS-84
Chief, Equipment Branch	WDGSS-85
Chief, Intelligence Division	WDGSS-90
Chief, Language Branch	WDGSS-91
Chief, Military Cryptanalytic Branch	WDGSS-92
Chief, General Cryptanalytic Branch	WDGSS-93
Chief, Traffic Analysis and Control Branch	WDGSS-94
Chief, Information and Liaison Branch	WDGSS-95

*Incl 1*RESTRICTED

~~RESTRICTED~~

HEADQUARTERS  
 Army Security Agency  
 Washington 25, D. C.

WDGSS-26

26 November 1945

MEMORANDUM No. 31

SUBJECT: Office Symbols

TO: All Organizations and Units

1. The basic office symbol for Army Security Agency is WDGSS. Numerical extensions of this symbol have been allocated to divisions, branches, and separate offices of the Agency as shown in Inclosure 1.

2. When preparing correspondence, the symbol of the originating division, branch, or separate office will be used, regardless of the signing official, unless specific instructions to the contrary are given in individual cases.

## a. Exceptions:

- (1) Correspondence prepared for signature in the Military Intelligence Service or in the office of the Assistant Chief of Staff, G-2, will bear the symbol WDGBI.
- (2) On Second Signal Service Battalion correspondence the symbol WDGSS-50 will be used. In those cases in which correspondence for signature of the Battalion Adjutant is prepared in other branches of the Agency, the Office symbol WDGSS-50 will be used, with the numerical symbol of the originating branch appearing thereafter in parentheses; thus: WDGSS-50 (94).

3. Office symbols designating units below branch level will not be used on Army Security Agency correspondence.

4. Paragraphs 7 and 8 of Army Security Agency Memorandum No. 29, "Administrative Procedures, Army Security Agency," 27 September 1945, are rescinded.

BY COMMAND OF BRIGADIER GENERAL CORDERMAN:

1 Incl  
 List of Office  
 Symbols, ASA

*Joseph W. Johnston*  
 JOSEPH W. JOHNSTON  
 Lt. Colonel, Signal Corps  
 Adjutant

DISTRIBUTION  
 "B"

~~RESTRICTED~~

26 November 1945

Chief, Army Security Agency	WDGSS-10
Executive Office	WDGSS-11
Director of Communications Research	WDGSS-14
Control Office	WDGSS-15
Assistant Chief, Staff	WDGSS-20
Personnel Section	WDGSS-21
Organization and Training Section	WDGSS-22
Operations Section	WDGSS-23
Materiel Section	WDGSS-24
Fiscal Section	WDGSS-25
Adjutant, Army Security Agency	WDGSS-26
Security Control Section	WDGSS-27
Assistant Chief, Operations	WDGSS-60
Personnel and Training Branch	WDGSS-61
Supply Branch	WDGSS-62
Research and Development Division	WDGSS-70
Cryptologic Branch	WDGSS-71
Ciphony and Ciphax Branch	WDGSS-72
Intercept Equipment Branch	WDGSS-73
Electronics and Electro-Mechanics Branch	WDGSS-74
Laboratory Services Branch	WDGSS-75
Security Division	WDGSS-80
Plans and Operations Staff	WDGSS-81
Materiel Branch	WDGSS-82
Methods Branch	WDGSS-83
Protective Branch	WDGSS-84
Maintenance Branch	WDGSS-85
Intelligence Division	WDGSS-90
Laboratory Branch	WDGSS-91
Machine Branch	WDGSS-92
Cryptanalytic Branch	WDGSS-93
Intercept Control Branch	WDGSS-94
Information, Publication, and Documents Branch	WDGSS-95
Arlington Hall Station	WDGSS-40
Headquarters, Second Signal Service Battalion	WDGSS-50



AG 320.2 (9-2-38)  
Misc. (Int)-D-8

November 15, 1938

SUBJECT: Second Signal Service Company.  
TO: Chief Signal Officer.

1. Reference is made to your letter (AGSigs-320.3-110) dated September 4, 1938.

2. Effective January 1, 1939, the Second Signal Service Company is constituted on the active list with headquarters at Fort Monmouth, New Jersey; detachments comprising the company will remain at their present stations in the Corps areas and departures as indicated in para. 3 below. The details of organization and the tables of Organization as recommended in para. 3 and 5 and Enclosures (a), 1 and 2 of your letter (AGSigs-320.3-110), dated September 4, 1938, are approved. The company will operate under instructions issued by the Chief Signal Officer.

3. The following Signal Intelligence Detachments with the indicated grades and specialist ratings and minimums from the signal service companies indicated below and are allocated to the Second Signal Service Company:

	Grades							Total	Specialist ratings					Total	
	1	2	3	4	5	6	7		1	2	3	4	5		6
Sig. Intelligence Det., 5th Sig Serv Co-Mas.	1			2	1	6	12	22	1	5	7	6			19
Sig. Intelligence Det., 7th Sig Serv Co-AMH			1	1	2	4	9	25	1	2	4	3	1		11
Sig. Intelligence Det., 3th Sig Serv Co-Other	1			1	2	4	7	15	1	2	4	3	1		12
Sig. Intelligence Det., Panama Sig Co-Company	1		2	1	6	12	22	24	1	5	6	6			18
Sig. Intelligence Det., 10th Sig Serv Co-P.I.			1	1		2	6	10	1	1	3	2		1	8
Reduction of strength (actual) 1st Lt. in Intelligence Co., Ft. Monmouth, N. J.	1			2	1	7	6	17		1	2	2	4	3	12
<b>Total</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>7</b>	<b>29</b>	<b>50</b>	<b>101</b>	<b>5</b>	<b>16</b>	<b>25</b>	<b>22</b>	<b>6</b>	<b>4</b>	<b>78</b>

4. Tables of Organization of the Radio Intelligence Company will not be changed; grades and ratings taken to make up the 2d Signal Service Company will be left vacant for the time being; when suitable increases in signal corps personnel are made, the Radio Intelligence Company may regain its table of organization strength.

5. Transfer of enlisted personnel of the 2d Signal Service Company to and from foreign service, within the company, without loss of grade or specialist rating, is authorized.

By order of the Secretary of War:

*James C. Mc...*  
1st Lt., Signal Corps

/s/ J. H. ...  
The Adjutant General

WAR DEPARTMENT  
Office of the Chief Signal Officer  
Washington

OCSigO 320.3 (2d Sig. Serv. Co.)

September 6, 1939.

5

SUBJECT : 2d Signal Service Company.  
TO : The Adjutant General.

1. The 2d Signal Service Company was constituted on January 1, 1939, with headquarters at Fort Monmouth, New Jersey, and operates under instructions issued by the Chief Signal Officer in accordance with the authority set forth in letter from The Adjutant General of November 15, 1938, file AG 320.2 (9-2-38) Misc. (Ret)-B-M, (Copy herewith).

2. Experience during the elapsed period since the organization of the unit has clearly indicated the urgent desirability from an administrative viewpoint of locating its headquarters in this city. Due to the unique composition of the unit, the nature of its mission and the necessary dispersion of its personnel in detachments stationed in the United States and three overseas garrisons, considerable lost motion and delay is entailed in correspondence and reference of papers to Fort Monmouth concerning personnel and other administrative matters which could be settled on the spot were the headquarters stationed under the immediate supervision of the Chief Signal Officer.

3. It is accordingly recommended that instructions issue changing the station of the headquarters of the 2d Signal Service Company from Fort Monmouth, New Jersey, to Washington, D. C., and that the officer and enlisted men now at Fort Monmouth constitute one of the detachments of the Unit.

4. If the foregoing be approved, it is further recommended that an increase of one officer chargeable to the field activities under the jurisdiction of the Chief Signal Officer be authorized.

For the Chief Signal Officer:

Clyde L. Eastman,  
Colonel, Signal Corps  
Executive.

1 Incl.

A TRUE COPY

*4222114 - 320.3 (2d Sig. Serv. Co.) (6 Sept. 39)*

AG 320.2 (9-6-39)  
M (ret)-C

1st Ind.

JcP/tak

War Department, A. G. O., October 24, 1939 - To Chief Signal Officer.

1. Effective November 1, 1939, the Headquarters, 2d Signal Service Company is changed from Fort Monmouth, N. J., to the Office of the Chief Signal Officer, Washington, D. C. Paragraph 2, letter A.G. 320.2 (9-2-38), November 15, 1938 is amended accordingly.

2. No increase in the present allotment of grades and ratings to the 2d Signal Service Company is authorized by this change. The transfer of one enlisted man from Fort Monmouth, N. J., to Washington, D. C., as recommended by you, is authorized, Chargeable to procurement authorities-

FD 1437 P 50-0623, P 62-0600 A -0410-0 (Travel of enlisted man and his dependents); and  
QM 1620 P 72-0110, P 72-0284, P 72-1378, P 61-0700 A 0525-0 "D"  
(For packing and crating and shipping baggage).

The exact costs, by purpose numbers under each procurement authority, will be reported to this office upon completion of the movement.

3. An increase of one officer chargeable to the field activities under your jurisdiction is authorized. This action does not increase the number of officers now assigned to the Signal Corps, but authorizes you to order one additional officer to Washington, D. C.

4. The officers authorized for duty in the City of Washington is increased by one.

By order of the Secretary of War:

Adjutant General.

1 Incl.  
n/c

*File - 52012 (2d Sig. Serv. Co.) (24 Oct 39)*

~~CONFIDENTIAL~~

IN REPLY REFER TO  
OCSigO 220.33-2nd Sig. Service Co. (7-11-40) OFFICE OF THE CHIEF SIGNAL OFFICER  
WASHINGTON

July 11, 1940. 13

Subject: Replacements - Second Signal Service Company

To: Signal Officer, Fourth Corps Area.

1. Your attention is invited to the following extracts of a letter sent out previously to certain Corps Areas and Departments:

"1. The following policy governing the selection, training, assignment or transfer of enlisted men to the Second Signal Service Company is published for the information and guidance of all concerned.

"2. Selection of personnel. Personnel to be transferred or assigned to the Second Signal Service Company, or to be placed in training for this purpose will be selected from enlisted men:

"a Of excellent character who are citizens, preferably native born, of the United States.

"b Who have no close relatives or other ties in foreign countries.

"c Whose loyalty, integrity, discretion and trustworthiness are unquestionable.

"d Whose financial status and/or habits are such as to render unlikely their succumbing to any temptations arising from these sources.

"e Who, preferably, have had at least one enlistment period.

"f Who have indicated their desire to make the military service their career.

"g Who have indicated their willingness to spend about 40% of their service on foreign duty assignments.

*Copies sent to*  
*Fifth Corps (Signal Officer)*  
*Fourth Corps*  
*Third Corps*  
*2nd Corps*

*First Corps (Signal Officer)*  
*9th Corps*

~~CONFIDENTIAL~~

*Approved 220.33 (9th Sig Co)*  
*(Signature)*  
*5*

~~CONFIDENTIAL~~

OCSigO 220.33-2nd Sig. Service  
Co. (7-11-40)

"3. Training of radio personnel. When qualified radio operators cannot be obtained for transfer or assignment, the training of personnel will be restricted to that required to qualify them as such. Training in the radio intelligence duties incident to the work of the Second Signal Service Company will only be given at the station to which the soldier is to be sent for duty in the Second Signal Service Company."

2. There has been some difficulty in obtaining qualified replacements for this organization and it is desired that you discreetly canvass the Signal Corps enlisted personnel in your Corps Area with a view to submitting recommendations for transfer to this organization. In addition to meeting the qualifications listed in Paragraph 2 of the quoted extract above, applicants should be qualified radio operators. In so far as possible, all transferees will be given the same grade and rating they now hold. The rate of promotion in this organization is very rapid. It is believed that this organization offers exceptional possibilities to those who intend to make the Army their career.

By order of the Chief Signal Officer:

Clyde L. Eastman,  
Colonel, Signal Corps,  
Executive.

~~CONFIDENTIAL~~

HEADQUARTERS  
SECOND SIGNAL SERVICE COMPANY  
WASHINGTON, D. C.

December 5, 1941

STATION	AUTHORIZED	ACTUAL	UNDERSTRENGTH
WASHINGTON, D. C.	30 (33)	*25	5
Fort Monmouth, N. J.	24 (26)	20	4
Fort Sam Houston, Texas	11	11	0
Presidio of S.F., California	14 (18)	9	5
Corozal, Panama Canal Zone	22	16	6
Fort Shafter, T. H.	25	20	5
Fort Wm. McKinley, P. I.	24 (32)	16	8
Totals	150	117	33

\* Includes six (6) men on duty at Office of the Chief Signal Officer.

*100-4400 (and Signal Co. (S.M.))*

*Col. Cabell  
File*

*11-5*

~~SECRET~~

AC-3

OCSigO 311.5-General  
(2-14-42)

February 14, 1942

MEMORANDUM FOR: The Office in Charge, Military Personnel Division  
THRU Officer in Charge, Army Communications Branch.  
SUBJECT: Reorganization of the Second Signal Service Company

1. The Second Signal Service Company was organized to perform radio intercept missions for the War Department. The number of intercept stations has been increased from time to time, and more are contemplated. In addition to intercept duties, it has been found desirable that this organization should encompass all of the Signal Intelligence activities of the War Department for which enlisted personnel must be furnished. At the present time the students and enlisted instructors in the Cryptographic Division, Signal Corps School as well as a detachment on duty in the Signal Intelligence Service, Office of the Chief Signal Officer, are assigned to the Second Signal Service Company as surplus personnel for whom no grades or ratings are available. The organization has long ago exceeded normal company size and it is, therefore, recommended that in accordance with the inclosed Table of Organization, the company be reorganized as the Second Signal Service Battalion.

2. A brief explanation of the proposed organization follows:

a. Headquarters Detachment (Column 3)

The Battalion Commander and the Second in Command are assigned to additional duty in the Traffic Section of the War Department, S.I.S. The operating directives to the various intercept detachments should preferably be coordinated by the organization commander, who should have, at the same time, an intimate knowledge of the types of traffic desired and the details of its reception. The third officer in the Headquarters Detachment is assigned to administrative duties solely. Enlisted administrative personnel consist of one Sergeant Major, one Supply Sergeant, and two clerks.

b. School Detachment (Column 4)

The school detachment comprises both students and enlisted instructors. The commissioned instructors are members of the staff and faculty, Signal Corps School. It is believed desirable to assign to the Second Signal Service Battalion enlisted students engaged in cryptographic training, since it provides better administrative control of their instruction and later assignment.

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OCSigO 311.5-General  
(2-14-42)

AC-3

c. The War Department S.I.S. Detachment (Column 5) represents the personnel considered necessary to adequately perform the Signal Intelligence functions of the War Department during war time. A successful prosecution of Signal Intelligence activities requires the concentrated efforts of a large group of highly trained and skilled personnel.

d. G.H.Q., S.I.S. Detachment (Column 6) is not an organic part of the Second Signal Service Battalion. It is attached to the Battalion during such time as the G.H.Q. remains in the vicinity of Washington, D. C. Upon departure of G.H.Q. this detachment reverts to Headquarters, Signal Service, G.H.Q.

e. Fifteen Intercept Detachments (Column 7) have been set up as needed to adequately provide the radio intercept coverage desired by the War Department. Each detachment consists of one officer and twenty-five enlisted men. Experience has shown that a detachment of this size is required to man an intercept station and furnish twenty-four hour service. At the present time eight intercept stations are in operation. Most of them are inadequately manned to perform the intercept service directed. They vary in size from about ten operators, the smaller stations being made so necessarily because of the limited authorized strength of the Second Signal Service Company.

f. Transportation to consist of one truck, pickup for the Headquarters Detachment and for each of the Intercept Detachments has also been provided. This is considered necessary to assure the prompt handling of the intercepted traffic in dispatching it from intercept stations to the War Department or a transmitting agency.

3. The grades and ratings asked for are proportionately large for a battalion strength organization, as is the present allotment of grades and ratings for company strength. The high degree of training and the special qualifications necessary for the various phases of Signal Intelligence duty, upon which this personnel will be engaged, make the setting up of adequate grades and ratings a necessity. Enlisted men who are performing the specialized duties of this organization forfeit their chance for rapid advancement, which would undoubtedly come their way if they were assigned to field organizations. It is therefore unjust to the individual and destructive to morale to, in fact, penalize him because of his assignment to this service organization.



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OCSigO 311.5-General  
(2-14-42)

AC-3

4. Early consideration of this proposal is requested, in view of the conditions existing as mentioned in Paragraph 1 above. If the Second Signal Service Company is not to be enlarged to absorb in proper grade the personnel assigned to the Cryptographic School and to the War Department, S.I.S., other arrangements should be made to enable the promotion of the increasing number of men in seventh grade who are being so assigned.

R. W. Minckler,  
Lt. Col., Signal Corps.

1 Incl.-  
Table of Organization.

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Proposed Table of Organization - SECOND SIGNAL SERVICE BATTALION

1	2	3	4	5	6	7	8	9
Unit	Spec. Ratings (class)	Hqs. Det.	School Det.	War Dept. SIS Det.	GHQ SIS Det.	15 Intercept Detachments	TOTAL	Remarks
2 Major		1 (a)		(1)			1	
3 Captain		1 (b)		(1)			1	
4 First Lieutenant				2		7	29	
5 Second Lieutenant		1		3		15	19	
6 Total commissioned		3		5		15	23	
7 Master Sergeant, including		1		29	17	30	77	
8 Chemist, junior (051)				(2)	(1)		(3)	
9 Chief radio operator (177)						(15)	(15)	
10 Cryptanalyst (808)				(18)	(5)		(23)	
11 Cryptographer (807)				(2)	(4)		(6)	
12 Clerk, record (055)				(4)	(6)		(10)	
13 Machine Maintenance Chief (239)				(2)			(2)	
14 Proofreader (727)					(1)		(1)	
15 Radio Traffic Chief (052)				(1)		(15)	(16)	
16 Sergeant Major (052)		(1)					(1)	
17 Technical Sergeant, including			1	20	4	60	85	
18 Assist. Chief Radio Opr. (177)						(60)	(60)	
19 Assist. Machine Maint. Chief (239)				(1)			(1)	
20 Chemist, junior (051)				(2)	(2)		(4)	
21 Cryptanalyst (808)				(14)	(2)		(16)	
22 Cryptographer (807)				(2)			(2)	
23 Clerk, record (055)			(1)	(1)			(1)	
24 Staff Sergeant, including			3	19	3	90	115	
25 Assistant Radio Tech. (052)				(1)		(15)	(16)	
26 Cryptanalyst (808)			(3)	(15)			(18)	
27 Cryptographer (807)				(2)			(2)	
28 Clerk, record (055)				(1)	(3)		(4)	
29 Radio Electrician (174)						(15)	(15)	
30 Radio Operator (177)						(60)	(60)	
31 Sergeant, including		1		28	3	60	92	
32 Clerk, Cryptanalytic (055)				(18)			(18)	
33 Clerk, Cryptographic (055)				(1)			(1)	
34 Clerk, record (055)				(8)	(3)		(11)	
35 Machine repairman (239)				(1)			(1)	
36 Radio Operator (177)						(60)	(60)	
37 Supply		(1)					(1)	
38 Corporal, including		2		19	2		23	
39 Clerk, Cryptanalytic (055)				(14)	(1)		(15)	
40 Clerk, Cryptographic (055)					(1)		(1)	
41 Clerk, record (055)		(2)		(5)			(7)	
42 Privates, 1st. Cl.) including								
43 Privates			150	61	18	135	364	
44 Clerk, Headquarters (055)	4th				(4)		(4)	
45 Clerk, Headquarters (055)	5th				(6)		(6)	
46 Clerk, record (055)	3rd				(1)		(1)	
47 Clerk, record (055)	4th			(24)			(24)	
48 Clerk, record (055)	5th		(25)	(23)	(4)		(52)	
49 Clerk, record (055)	6th		(25)	(3)			(28)	
50 Draftsman, basic (075)	2nd				(1)		(1)	
51 Radio Electrician (174)	1st					(15)	(15)	
52 Radio Operator (177)	1st					(60)	(60)	
53 Radio Operator (177)	2nd					(45)	(45)	
54 Stenographer (213)	4th			(11)	(2)		(13)	
55 Teletype Operator (237)	3rd					(15)	(15)	
56 Basic (521)			(100)				(100)	
57 Total enlistment		4	154	176	47	375	756	
58 Aggregate		4	154	176	47	375	756	
59 0 Pistols		4	154	176	47	375	756	
60 Q. Truck 1/2 Ton Pickup		1				15		

Summary of Specialists' Ratings:

1st. Class	75
2nd. Class	46
3rd. Class	16
4th. Class	41
5th. Class	58
6th. Class	28

The serial number symbol shown in parenthesis is an inseparable part of the specialist designation. A number below 500 refers to an occupational specialist whose qualification analysis is found in Section I, AR615-26. A number above 500 refers to a military occupational specialist listed in section II, AR615-26.

Column 6, GHQ Signal Intelligence Service, is attached to the 2nd. Signal Service Battalion only while GHQ remains in Washington, D. C. Upon departure of GHQ, this detachment reverts to Headquarters, Signal Service, ~~Signal Service Battalion~~.

(a) Battalion commander and officer in charge of Traffic Section, WD SIS.

(b) Second in command and assistant to officer in charge, Traffic Section, WD SIS.

PROPOSED TABLE OF ORGANIZATION  
2d SIGNAL SERVICE BATTALION  
14 February 1942

~~SECRET~~IN REPLY  
REFER TOOCSigO 311.5-General  
(3-11-42)WAR DEPARTMENT  
OFFICE OF THE CHIEF SIGNAL OFFICER  
WASHINGTON

AC-3

March 11, 1942.

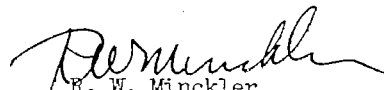
MEMORANDUM FOR: General Stoner.

1. On February 14, 1942 I proposed through your office a Table of Organization covering the considerable increase for the Second Signal Service Company. Since the proposed strength of the company was an aggregate of 779 men and officers, the type of organization was changed from that of company to that of battalion.

2. The recommendations and Table of Proposed Organization are now in the hands of G-1 according to the Military Personnel Division. It is recommended that approval of the proposed organization be obtained as early as practicable in order that increases in personnel may be made and promotion of qualified enlisted men now on duty in the present company may be accomplished.

3. Should G-1 consider that the higher grades and ratings are out of proportion to the size of the organization, consideration should be given to the fact that a very high type of personnel is required throughout the organization. Many men have been with the organization a considerable length of time and are not available for transfer or absorption in new units ~~for~~ men with similar ability and length of service will normally be receiving relative grades and ratings.

4. There is attached a copy of the memorandum which accompanied the proposed Table of Organization. Paragraph 3 of the attached memorandum covers the points mentioned above.

  
R. W. Minckler,  
Lt. Col., Signal Corps.

Attached:  
Memo. dtd  
2-14-42 regarding  
Second Sig. Serv. Co.





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COPY NO. \_\_\_\_\_

WAR PLANS  
COPY FURN. MIL. PER.

WAR DEPARTMENT  
The Adjutant General's Office  
Washington

AG 320.2 (3-3-42)  
MR-14-SF

April 14, 1942

SUBJECT: Reorganization of the 2d Signal  
Service Company.

TO: Chief Signal Officer.

:::::::::::  
: S E C R E T :  
: Auth: T. A. G. :  
: Initials AG :  
: Date 4-14-42 :  
: :::::::::::

1. The 2d Signal Service Company is redesignated the  
2d Signal Service Battalion.

2. The present allotment of enlisted grades, Signal, to the  
2d Signal Service Company is rescinded, and the following allotment of  
enlisted grades, Signal, is authorized the 2d Signal Service Battalion,  
effective immediately:

1	2		3		4		5		6		7	
M	1st Tech		Staff		Sgt Tech		Corp Tech		Pvt 1 Cl		Pvt	Total
26	1	49	--	74	1	141	16	188	106	107	709	

By order of the Secretary of War:

*Atto Johnson*  
Adjutant General.

RECEIVED  
OFFICE OF THE  
SECRETARY OF WAR  
APR 16 12 38 PM '42

Copies Furnished:

- Commanding Generals, Army Ground Forces, Services of Supply, and Third Corps Area.
- Divisions of the War Department General Staff.
- Chief, Statistics branch, G.S.
- Publications Division A. G. O.

~~SECRET~~

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15-396 W  
3964

SUBJECT: Priority of Assignment -- Enlisted Personnel, 2nd Signal Service Battalion

Action 2  
Dir. Sig Tr  
Div. Ra.  
3-E-346,  
Pent. Bldg.

1. For necessary action. The Directorate of Planning will render any assistance desired in obtaining higher priorities.

By order of the Chief Signal Officer:

W. T. Guest,  
Colonel, SPSEO-2  
11-20-42, Br. 71425

*mm*  
to  
hil  
Pent Bldg

3  
THRU:  
Sig Troops Div.  
TO:  
Directorate  
of Planning.

1. Colonel Stevenson, G-3, informed Major Vaughan, this office, that favorable consideration would be given the 2nd Signal Service Battalion in priority 12 or 13 for the number of high grade specialists not to exceed 150.

2. Request that a requisition be submitted for Cryptographers, Cryptanalysts, Teletype Maintenance Men, Radio Repairmen, Radio Operators, and Linguists desired for the remainder of the year. Upon receipt of this requisition, action will be taken to have a priority established which will permit the assignment of personnel indicated above.

*mm*

H.L.P. King,  
Col., SPSMP-3B.  
11-26-42, Br. 3049

MS-3049

4  
Signal  
Security  
Branch

For necessary action in accordance with paragraph 2, action 3.

W. T. Guest,  
Colonel, SPSEO-2  
11/28/42; Br. 79194

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3964

ROUTING AND WORK SHEET  
(Far 40.62 O. R.)

Subject Priority of assignment--Enlisted Personnel, 2d Signal Service Battalion.

NUMBER EACH ACTION	TO	MEMORANDUM	NAME, DIVISION OR BRANCH AND DATE
1.	Executive Office	<p>1. Extreme difficulty has been encountered in obtaining enlisted personnel to fill the urgent requirements of the 2d Signal Service Battalion. Numerous requisitions have not been filled because of insufficient priorities. The Second Signal Service Battalion is called upon to furnish trained personnel for assignment to task forces as well as to provide cadres or detachments of their own organization for service within the continental limits and for foreign service.</p> <p>2. A new T/O authorizing extensive expansion of the 2d Signal Service Battalion has been approved. To permit this organization to be brought up to strength at the earliest possible date, which is essential for accomplishing its mission as directed by the War Department, it is urgently requested that the priority of assignments to this Battalion be increased to the same level as that for task forces.</p> <p>3. The success of the Signal Security Service in accomplishing its directed mission will be directly affected by the progress of the assignment of personnel to the 2d Signal Service Battalion.</p> <p>4. It is requested that favorable action be expedited.</p>	<p>Frank J. Bullock Col., SPSIS-1 11-19-42 Ext. 3129</p> <p><i>[Handwritten signature]</i></p>

*Spec 20081 (Handwritten)*

over



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HEADQUARTERS  
Second Signal Service Battalion  
Washington, D. C.

18 March 1943

Memorandum to: Major Slack.

Subject : Proposed Expansion of Second Signal Service Bn.

1. The request for an additional allotment of men was based on expansion of present outlying stations and the establishment of new stations. The increase was approved--to be authorized in increments: 50% immediate, 25% January 1, 1943, and 25% April 1, 1943. All plans went ahead on this basis.

2. The sole basis for existence of the outlying stations of the 2nd Sig. Serv. Bn. being the interception of radio traffic, the following expansion of effective operating personnel was contemplated:

a. Increase the number of radio intercept operators at Vint Hill from present number of one hundred nine (109) to three hundred forty (340), some of these to come from students already in the Battalion and attending school at Vint Hill.

b. Increase number of radio intercept operators at Two Rock from present number of seventy-eight (78) to two hundred seventy (270), part of these to come from students already in the Battalion in school at Vint Hill.

c. Increase the size of station five (5), Ft. Shafter, T. H. from present strength of thirty-seven (37) immediately to seventy-five (75) and ultimately to one hundred twenty (120).

d. Increase the size of station three (3) from present strength of twenty-seven (27) to fifty (50).

e. Increase the size of station seven (7), Fairbanks, Alaska from present strength of nineteen (19) to thirty-five (35).

f. Increase station eight (8) New Delhi, India from present strength of two (2) immediately to twenty-three (23), (this increase of twenty-one (21) already earmarked from school at Vint Hill) and ultimately to thirty-five (35).

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g. Establishment of a station in the African Theatre of which immediate requirements would be four (4) officers and fifty (50) enlisted men and ultimately expand to one hundred fifty (150) men.

h. Establishment of at least two (2) more stations of undetermined size to be opened in the near future.

i. All ultimate strengths to be reached by July 1, 1943 or shortly thereafter.

3. Increased requirements for installations noted in 2 above will have to be filled by requisition replacement centers, except where noted that they can be partially filled by students already in school at Vint Hill.

4. The number of students in radio school at Vint Hill is one hundred fifty-one (151).

5. The Cryptographic School at Vint Hill now has four hundred sixty-four (464) enlisted men students of which two hundred sixty-five (265) are assigned.

6. Steps have been taken to cut down on the size of the Cryptographic School. The C. O., Vint Hill Farms Stn. has already requested that the number of men from replacement centers be cut from forty-five (45) per week to twenty (20) per week. The Adjutant, 2nd Sig. Serv. Bn. has coordinated with Personnel Officer, Arlington Hall Station to eliminate, as far as possible, special assignments. This was done on advice from C. O., Vint Hill Farms Stn. and O. I. C., Crypt School, that students from Ft. Monmouth and Camp Crowder were as a general rule, much better than those secured by special assignment.

7. Under existing policy, all men who have been reported available from Crypt School have been transferred to 2nd Sig. Serv. Bn. This policy was satisfactory when first started because a large number of cryptographic personnel was being ordered to overseas duty. During the last four (4) months overseas movement of cryptographic personnel has been at a standstill resulting in a large number of crypt specialists at Vint Hill. Also curtailment number of enlisted men to be used at Arlington Hall has presented a question of advisability of continuing to assign these specialists to 2nd Sig. Serv. Bn.

8. If approved, this additional authorization should be used almost entirely on staffing outlying stations.

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9. Disapproval will necessitate the following steps:

a. Discontinue plans for expansion of outlying stations and establishment of any more. This is inadvisable because present set up is inadequate and discontinuance of expansion would seriously interfere with existing directive on interception of enemy traffic.

b. Transfer immediately from 2nd Sig. Serv. Bn. to some other organization all personnel in outlying stations including Vint Hill, who are not directly connected with intercept activities or on overhead activities necessary for maintenance and security. This would include the following:

(1) Students at Crypt School who have been assigned to 2nd Sig. Serv. Bn.

(2) Code Compilation specialists stationed in Seattle, Washington and New Caledonia.

(3) SigAba maintenance men stationed in Hawaii and Alaska.

There is no objection to b (2) and (3). Loss of control of graduates of Crypt School would be detrimental because it removes the source of supply of cryptographic specialists. It is believed decreasing the size of the school would be to more advantage.

c. Discontinue assignment to 2nd Sig. Serv. Bn. of specialists for training in SigAba maintenance. This is desirable because these men are stationed here only for training and are transferred to other organizations soon after training is completed. On February 28, 1943 there were one hundred thirty-nine (139) enlisted men in 2nd Sig. Serv. Bn. who were trained, being trained or awaiting training in SigAba maintenance out of which about one hundred (100) will be transferred from 2nd Sig. Serv. Bn.

d. Designate the Japanese Language School as a special service school and only assign graduates of the school to 2nd Sig. Serv. Bn. Students would be Signal Corps unassigned. This would reduce the number of men not actually engaged in operations. The enlisted strength of this school is sixty-seven (67). An additional advantage would be that these men could be promoted to Technician Fifth Grade, as prescribed in WD AGO Memorandum W350-92-42, without affecting the allotment of the 2nd Sig. Serv. Bn.

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10. If steps 9b and c and d were taken the enlisted men concerned would be Signal Corps unassigned and they would not be included in the T/O. This change would also cut the number of assigned men at Arlington Hall to a point below six hundred fifty-seven (657) as was proposed in the tentative T/O submitted for approval.

ARTHUR J. CADORETTE,  
1st Lt., Signal Corps,  
Adjutant.

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Priorities of the Second Signal Service Battalion.

1. Military Personnel Branch, GCSigO.

1. The War Department has considered fixed radio intelligence installations sufficiently important to expand the missions and installations of the Second Signal Service Battalion. The establishment of two primary intercept stations in the United States, one at Two Rock Ranch, Petaluma, California, and the other at Vint Hill Farms Station, Warrenton, Virginia; and a secondary station at Fairbanks, Alaska, was directed by the Secretary of War to the Chief Signal Officer in letter AG 320.2 (4-18-42)MC-3, subject, "Expansion of the Signal Intelligence Service". The establishment of another station at Asmara, Eritrea, was authorized in memorandum from OPD, WDCS, to the Chief Signal Officer, dated February 26, 1943. It is contemplated other directives will be received in the near future for establishment of additional intercept stations. Due to this wide expansion of War Department intercept activities and installations, it was necessary to fulfill operator requirements very expeditiously by requisitioning from the Signal Corps schools personnel who were trained as high-speed radio operators (SSN 766). These operators have received sufficient basic radio operator training to permit only specialized training to be carried on at Vint Hill Farms Station and Two Rock schools. The specialized courses consume from two to three months. This program can be undertaken satisfactorily; however, the influx of 766 has been retarded due to the low priorities of the Second Signal Service Battalion.

2. In order to carry out the directives of the War Department, it is requested that the personnel priorities of the Second Signal Service Battalion be changed from the present priority of 3-B to 13-C.

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J. E. Slack,  
Lt. Col., SPSIS-2,  
3 July 43,  
Ext. 8129.

*Handwritten notes:*  
Date of 1st Sig Met  
100-1000 (by Inspector)

*Handwritten initials:* AAS

JUN 13 1943

SPSOR 320.2  
(2d Sig Serv Bn)

SPSOR

MEMORANDUM for Mobilization Division, Army Service Forces.  
Room 4B280, The Pentagon.

Attention: Lt. Col. Harrison.

Subject: Personnel Procurement Priority for the 2d Signal Service Battalion.

1. The War Department has considered fixed radio intelligence installations sufficiently important to expand the missions and installations of the 2d Signal Service Battalion. Two primary intercept stations in the United States, one at Two Rock Ranch, Petaluma, California, and the other at Vint Hill Farm Station, Warrenton, Virginia, have been established. The Chief Signal Officer was directed by the Secretary of War in letter dated 18 April 1942, file AG 320.2 (18 Apr 42)WC-3, subject, "Expansion of the Signal Intelligence Service," to establish a secondary station at Fairbanks, Alaska. The establishment of another station at Asmara, Eritrea, was authorized in memorandum from Operations Division, War Department General Staff, to the Chief Signal Officer, dated 26 February 1943, file, OPD 676.3 Africa (22 Jan 43). It is contemplated that additional directives will be received in the near future for the establishment of additional intercept stations. Due to this wide expansion of the War Department intercept activities and installations, it was necessary to fulfill operator requirements very expeditiously by requisitioning from Signal Corps schools, personnel who were trained as high-speed radio operators (SSN-766). However, the influx of the SSN-766 personnel has been retarded because of the low personnel priority of the 2d Signal Service Battalion.

2. In order to carry out the directives of the War Department, it is recommended that the personnel priority of the 2d Signal Service Battalion be changed from the present priority of 3-B to 13-C.

For the Chief Signal Officer:

F. C. Meade,  
Brigadier General, U.S. Army,  
Director of Operations Division.

COPIES FURNISHED:  
Mil Pers Br - Attn: Major Silverberg  
Sig Sec Br - Attn: Lt. Col. Slack

WJH  
Ex 73878

Sig Sec Br - Attn: Lt Col Slack

*6-11-43 #70*

*WJH*

*RECEIVED  
OPERATIONS DIVISION  
JUN 13 1943  
13-C-40*

IN REPLY REFER TO  
SPGIS 211.5-General

~~SECRET~~

SPGIS-2

HEADQUARTERS ARLINGTON HALL STATION  
OFFICE OF THE COMMANDING OFFICER  
ARLINGTON, VA.

23 July 1943.

MEMORANDUM for Record.

Subject: Personnel Procurement Priority for the Second Signal Service Battalion.

Captain W. J. Hann of the Operations Division, OCSigO, was contacted concerning the status of the memorandum dated 13 July 1943, subject: "Personnel Procurement Priority for the Second Signal Service Battalion". Advice was received to the effect that the Army Service Forces had not as yet acted on this recommendation. Captain Hann stated the Signal Security Agency will be notified as soon as definite information is received.

Extension of Captain Hann is 73873.

*J. E. Slack*  
J. E. Slack,  
Lt. Colonel, Signal Corps,  
Executive.

Attached:  
Memo dtd 13 Jul 1943 signed by  
Gen. F. C. Meade, re above  
subject.

*Spec 3200 (Hand Sig. Brn) (17 Jul 1943)*

~~SECRET~~

5302  
300.63

~~RESTRICTED~~

ARMY SERVICE FORCES  
Signal Security Agency  
Washington 25, D. C.

SFSIS-6

19 March 1945

OPERATIONS INSTRUCTIONS NO. <sup>23</sup>~~2E~~

Subject: Coordination with Headquarters, Second Signal  
Service Battalion:

1. In order to provide one office which will act as the coordinating point for communications between installations of the Second Signal Service Battalion and the Signal Security Agency, the procedures basically illustrated in the attached chart have been developed. As a fundamental plan in accomplishing this coordination, it is considered that the technical control originating within the several offices and divisions of the Signal Security Agency will be given every priority and consideration over administrative details within the Second Signal Service Battalion. The arrangements discussed in the following paragraphs will enable SSA to present completely coordinated instructions or information to installations of the Battalion, and will make available to the installations of the Battalion one point in Signal Security Agency to which communications may be focused.

2. All policy matters will be coordinated with Battalion Headquarters. These are defined as including recommendations or communications concerning:

- a. Changes in existing allocations, control, utilization, assignment and transfer of personnel.
- b. Major changes in facilities of the installations.
- c. Major changes in missions of the installations.

3. For routine changes concerning technical control to be sent by electrical means, which will not affect an established policy, the various components of Signal Security Agency will deal directly with installations of the Battalion. A copy of the action taken will be forwarded promptly to Battalion Headquarters.

(OVER)

Page 1

~~RESTRICTED~~



~~R E S T R I C T E D~~

SPSIS-6 (19 March 1945)

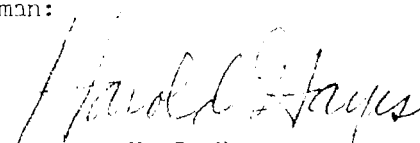
4. Matters requiring urgent action may be communicated directly to Battalion installations when they affect policy matters, provided that it is impossible or impracticable to contact Battalion Headquarters in time to take effective action. In such cases, a statement of the action taken will be forwarded promptly to Battalion Headquarters.

5. All matters to be handled by correspondence will be routed to Battalion Headquarters for signature and forwarding. Correspondence will be prepared in accordance with pertinent provisions of the SSA Correspondence Manual, 25 May 1944, and as amended. Battalion Headquarters will not change any correspondence originating within the Signal Security Agency without obtaining the concurrence of the office concerned.

6. Communications from installations of the Battalion of a nature defined in paragraphs 3 and 4 will be forwarded directly to the appropriate office in Signal Security Agency without reference to Battalion Headquarters. Message center will provide information copies of incoming messages from Battalion installations to Battalion Headquarters.

7. Correspondence, including reports, from Battalion installations of a nature defined in paragraphs 2 and 5 will be sent to Battalion Headquarters for forwarding to the office concerned or for any necessary coordination or action.

By order of Colonel Corderman:



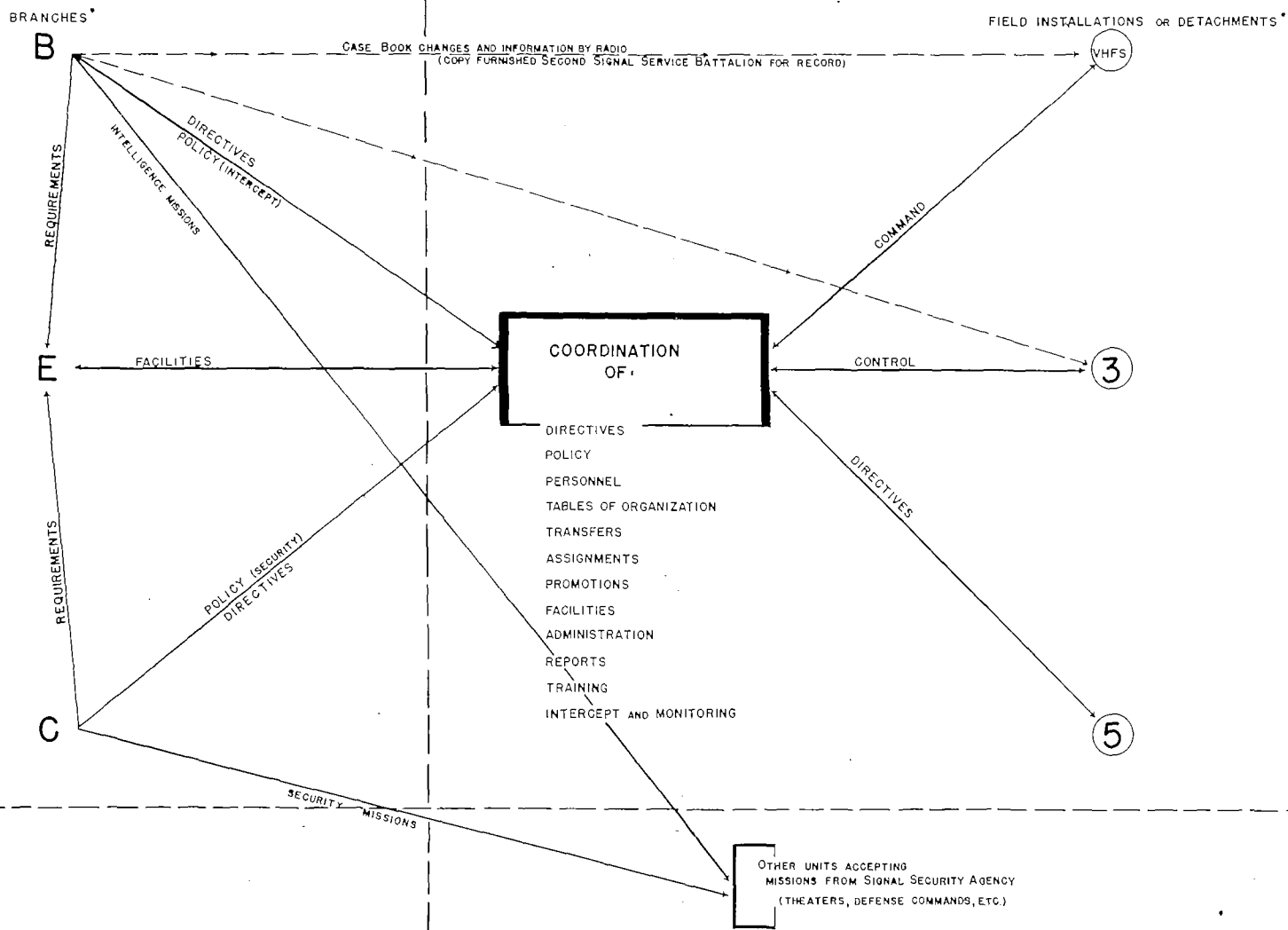
H. G. Hayes  
Colonel, Signal Corps  
Assistant Commandant

Distribution: "A"

~~R E S T R I C T E D~~

SIGNAL SECURITY AGENCY  
TECHNICAL CONTROL

SECOND SIGNAL SERVICE BATTALION  
OPERATIONS



SP515-1A

\*FOR CLARITY, ONLY THREE BRANCHES AND STATIONS ARE SHOWN. IN ACTUAL OPERATION THIS CHART MIGHT INCLUDE ALL BRANCHES AND STATIONS BUT THE PROCEDURE WOULD REMAIN THE SAME.

**ARMY SERVICE FORCES**  
Office of the Chief Signal Officer  
Washington 25, D. C.

General Orders  
No. 2

1 May 1945

1. Pursuant to the provisions of War Department Circular No. 345, 23 August 1944, the Meritorious Service Unit Plaque is awarded for maintenance of a high standard of discipline and outstanding devotion to duty to the following named organizations:

389th Army Service Forces Band, Fort Monmouth, New Jersey.

9423 Technical Service Unit - Signal Corps, War Department Signal Center, Washington, D. C.  
and the

17th Signal Service Company, Military District of Washington.

9400 Technical Service Unit - Signal Corps, Signal Corps Publications Agency, Eastern Signal Corps Training Center, Fort Monmouth, New Jersey. (Officers and Enlisted Men on duty with the Signal Corps Publications Agency.)

✓ 9420 Technical Service Unit - Signal Corps, Second Signal Service Battalion Headquarters and Detachments, Army Communications Service.

2. All military personnel who are assigned to the above organizations are entitled to wear the Meritorious Service Unit Insignia only so long as they remain assigned to that organization.

BY ORDER OF THE CHIEF SIGNAL OFFICER:

Jerry V. Matejka

JERRY V. MATEJKA  
Brigadier General, USA  
Chief, Personnel and Training  
Service

OFFICIAL:

David E. Washburn

DAVID E. WASHBURN  
Colonel, Signal Corps  
Executive

February 24, 1943

MEMORANDUM FOR Colonel Corderman

THRU: Major Slack

SUBJECT: Relationship of Arlington Hall Station with Headquarters,  
Military District of Washington

1. The geographic area of the Military District of Washington is removed entirely from the 3rd Service Command. The Commanding General of the Military District of Washington is authorized to communicate directly with War Department agencies in connection with administrative matters. In all those matters normally under the jurisdiction of a Service Commander, the Commanding General of the Military District of Washington deals direct with the headquarters or with the supply and administrative services of the Services of Supply in Washington. Because of their technical nature, certain field installations of the Services of Supply are under the direct command of the chief of the particular service concerned. This is true in the case of Arlington Hall Station. The duties of the Service Commander (The Commanding General of the Military District of Washington) at such installation are limited to certain services, as follows:

- a. Action in domestic emergencies.
- b. Inspection and audit of property accounts.
- c. Supervision of the Army Exchange Service.
- d. Action on boards of officers for damages to buildings.
- e. Reviews of reports of survey.
- f. Fixed signal communication.
- g. Medical service (including hospitalization, evacuation, and sanitation) except at ports of embarkation.
- h. General court-martial jurisdiction.
- i. Ordnance maintenance.
- j. Special services.
- k. Provost marshal investigative functions.
- l. Supervision of Finance Department activities, including disbursing activities.
- m. Internal security (except at ports of embarkation), including plant protection other than for Ordnance Department and Chemical Warfare Service plants handling explosives, incendiary, or irritant chemicals.
- n. Public relations.
- o. Repairs and utilities work.
- p. Operation of laundries.

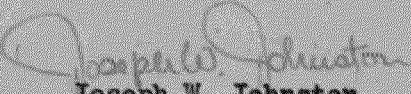
2. It is necessary for this station to proceed through the Military District of Washington in securing arms and ammunition for our Guard, in securing motor vehicles, in securing materials for the reopening of the swimming pool, in all matters pertaining to the operation of the Post Exchange, in coordinating our air raid precaution set-up, in matters pertaining to our Dispensary and the Medical Officer assigned in attendance.

SPS-558  
(24) February 1943

2/24/43

3. Past experience has proven that the Headquarters of the Military District of Washington are not sufficiently familiar with our operating problems to properly discharge their "housekeeping" functions.

4. It is recommended that steps be taken to acquaint the key personnel of the Headquarters of the Military District of Washington with our physical set-up and the problems existing therein and, in a very general way, to explain the functions of this station. It is further recommended that the Executive Officer of the Headquarters of the Washington Military District, Colonel Isbell, the S-4, Colonel Hawley, and his assistant, Major Southward, be extended an invitation to visit this station in order to see the physical installation that exists.

  
Joseph W. Johnston  
Captain, Signal Corps  
Assistant Executive Officer

SPICY

Army Service Forces  
XXXXXXXXXXXXXXXXXXXX

*Handwritten:* 321 Signal Security apparatus  
JUL 10 1948  
7-10/48

MEMORANDUM FOR THE DIRECTOR OF PERSONNEL  
THE CHIEF SIGNAL OFFICER  
THE COMMANDING GENERAL, MILITARY DISTRICT OF WASHINGTON

Subject: Personnel Authorizations for and Supervision  
of Activities at Arlington Hall

1. The Commanding Officer, Arlington Hall, is responsible to the Commanding General, Military District of Washington, for the activities performed by the personnel listed below and personnel authorizations will be made by the Director of Personnel, ASF, to the Military District of Washington, for the following:

a. Military Personnel

(1) 2505th Service Unit which will include in addition to personnel now assigned, the officer now detailed by the Commanding General, Military District of Washington and 12 enlisted men performing repairs and utilities activities

b. Civilian personnel

(1) All personnel engaged in repairs and utilities activities as set forth in Section 406.06 Army Service Forces Manual, 15 February, 1943, including coal passers, grounds keepers, building and grounds maintenance men and supervisory and clerical personnel required in connection therewith

(2) All personnel engaged in the operation of the post-telephone system, including telephone operators and supervisors

c. The Commanding Officer, Arlington Hall, is responsible to the Commanding General, Military District of Washington, for all activities, in addition to those indicated in paragraphs 1a and 1b, above, which are listed in paragraph 6a(4), AR 170-10, except internal security, and which are conducted or may be conducted in the future at Arlington Hall. Personnel authorizations, except for internal security activities, will be made by the Director of Personnel, ASF, accordingly.

*Handwritten:* 25 A. 2 - Arlington Hall  
K-200 Mar 1948  
- 1 -

FILE  
DATE 7-25-48

12743

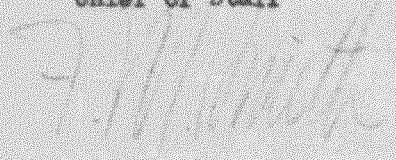
Memo for Dir. of Pers., Ch. Sig. Off. & CG, MHW, Page Two

2. The Commanding Officer, Arlington Hall, is responsible to The Chief Signal Officer for all activities, including internal security, other than those listed in paragraph 1, above. The Director of Personnel, ASF, will authorize personnel to The Chief Signal Officer for the activities for which the Commanding Officer, Arlington Hall, is responsible to The Chief Signal Officer.

3. The Commanding General, Military District of Washington, will report to the Director of Personnel, ASF, on 15 July, 1943, the personnel strength as of 31 May, 1943, engaged in activities listed in paragraph 1, above, by activity for military and civilian personnel separately on the form prescribed by ASF Circular 40, 11 June, 1943. The Director of Personnel, ASF, will make appropriate adjustments in the total personnel authorizations for the Military District of Washington and The Chief Signal Officer.

By command of Lieutenant General SOMERVELL:

W. D. STYER,  
Major General, U. S. Army  
Chief of Staff



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312

January 30, 1939

## MEMORANDUM for the Executive Officer:

The following study with respect to the duties of the Chief Signal Officer, in so far as the preparation of codes and ciphers is concerned, has been made in connection with the question as to whether the present Signal Intelligence Service is a field or departmental agency.

## I. Law and Regulations:

1. There is no specific law which places the responsibility for code and cipher work on the Chief Signal Officer. The Act of October 1, 1890 (10:212 U. S. C.), which states in part that, "The Chief Signal Officer shall have charge, under the direction of the Secretary of War, of all military signal duties and of works, papers and devices connected therewith\*\*\*", may be interpreted to include codes and ciphers. Army Regulations, which have the effect of law, definitely place this responsibility on the Chief Signal Officer.

2. Par. 1741, A. R. 1901, charges the Chief Signal Officer, among other duties, "with the preparation, distribution and revision of the War Department Telegraph Code." This same provision is contained in Par. 1538, A. R. 1904; Par. 1574, A. R. 1908; and Par. 1578, A. R. 1910. Par. 1556, A. R. 1913 charged the Chief Signal Officer with the "preparation and revision of the War Department Telegraph Code" and the distribution of the code was charged to The Adjutant General.

3. Par. 2 e, A. R. 105-5, January 14, 1922 and Changes No. 1, October 20, 1923, and Par. 2 e, A. R. 105-5, December 15, 1926, states: "The preparation and revision of the War Department Telegraph code and such other codes and ciphers required by the Army."

4. Par. 2 e, A. R. 105-5, Changes No. 1, May 10, 1929, and Par. 2 e, A. R. 105-5, May 16, 1929, states: "The preparation and revision of all codes and ciphers required by the Army and, in time of war, the interception of enemy radio and wire traffic, the goniometric location of enemy radio stations, the solution of intercepted enemy codes and cipher messages and laboratory arrangements for the employment and detection of secret inks."

5. Changes No. 2, Par. 2 e, A. R. 105-5, July 1, 1937, states: "The preparation, publication, revision, storage, accounting and distribution of all codes and ciphers required by the Army and in time of war the interception of enemy radio and

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wire traffic, the goniometric location of enemy radio stations, the solution of intercented enemy code and cipher messages and laboratory arrangements for the employment and detection of secret inks."

## II. Preparation of Codes:

1. The War Department Telegraph Code was published in 1885, 1900, 1906, 1915 and 1919 (file 16452). There is no record of the personnel engaged in the preparation of this code prior to 1901 and it is assumed this work was performed by commissioned officers. The Annual Report of the Chief Signal Officer for the fiscal year ending June 30, 1901, contains the following paragraph:

"The preparation of this code has <sup>devolved</sup> ~~developed~~ upon the Chief Signal Officer personally as there was no other available officer having knowledge of telegraphy, combined with a familiarity with military usages, special vocabularies, and the cable regulations and methods of the world."

The following is a chronology of subsequent events:

a. May 22, 1913, Harry B. Kirtland was employed as a code specialist at \$200 per month in the Signal Service at large for the purpose of revising the War Department telegraph code of 1906. His services were terminated on December 12, 1914.

b. Mr. John R. Browning, clerk-stenographer, was employed at \$1000 per annum in the Signal Service at large to assist Mr. Kirtland.

c. April 11, 1919, the Chief Signal Officer, A. E. F. advised the Chief Signal Officer that the Code Compilation Section of the Signal Corps composed of Major H. R. Barnes, Lt. W. B. Chambers, Lt. Mark J. Ryan, 2nd Lt. Lewis Hale, 2nd Lt. J. J. Gillchrist and three enlisted men, was returning to the United States. "This section has been solely engaged since 1917 in the construction of the various Army codes both for the front line and for headquarters purposes." (W. D. Telegraph Code, 1919 - SIS).

d. November 4, 1919, Order No. 100,700 was placed with Mr. Howard R. Barnes, 3632 Tenth Street, N. W., Washington, D. C., for services in connection with the reconstruction and revision of confidential Staff code and he was paid from Signal Service of the Army appropriation. He completed this work on April 29, 1920 amount paid \$1250.

e. October 29, 1920, letter from Director, Military Intelligence Division (4131-607 M. I.) states that as a result of a conference on October 26, 1920, between Major Norman, Colonel

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Curtis and Major Moore, the code and cipher work to be performed by the Signal Corps would consist of the following:

"a. The Signal Corps, under the supervision of the M. I. D. will undertake the compilation of such codes and ciphers as may be required. Before publication, these are to be approved by this Division of the General Staff.

"b. The Signal Corps understands that the solution of codes and ciphers is a function of the Military Intelligence Division but will instruct its officers in the basic principles of such solution as one of the most effective means of impressing them with the importance of proper use of authorized codes and ciphers.

"c. In its search for officers for the construction of codes and ciphers, the Signal Corps will give preference to those skilled in their solution on the ground that such men are best qualified to devise systems difficult of solution and further that with such men the Signal Corps will be in a better position to furnish any aid which may be requested by the Military Intelligence Division.

"d. Codes and ciphers on their completion will, unless otherwise ordered, be turned over to The Adjutant General for distribution." (311.5 Codes Folder No. 1)

f. December 6, 1920, Order No. 101, 166 was placed with William F. Friedman, Easton and Batavia Avenue, Geneva, Illinois, for services in connection with the reconstruction and revision of a confidential staff code and the construction of three field codes at a cost of \$1800, to be paid from Signal Service of the Army funds.

g. July 7, 1921, Order No. 101, 567 was placed with William F. Friedman, Easton and Batavia Avenues, Geneva, Illinois for services in connection with demonstration of codes at Camp Alfred Vail, N. J., at a cost of \$45, to be paid from Signal Service of the Army funds.

h. February 28, 1921, Order No. 101, 303 was placed with William F. Friedman, Easton and Batavia Avenues, Geneva, Illinois, for services in connection with the reconstruction and revision of two field codes at a cost of \$700 to be paid from Signal Service of the Army funds.

i. July 27, 1921, Order No. 101, 573 was placed with William F. Friedman, 1803 Connecticut Avenue, N. W., Washington, D. C., for services in connection with the preparation of a monograph on military cryptography and for services in connection with the delivery of a course of lectures and conducting a course of instruction in cryptography at Camp Alfred Vail, N. J., at a cost of \$450 to be paid from Signal Service of the Army funds.

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j. August 1, 1921, Order No. 101, 581 was placed with William F. Friedman, 1803 Connecticut Avenue, N. W., Washington, D. C., for services in connection with the revision and reconstruction of two special editions of the Field Code, five emergency code lists for use in the field and twelve sets of cipher tables to be used in connection with the Staff Code, at a cost of \$3350, to be paid from Signal Service of the Army funds.

k. November 16, 1921, recommendation was submitted to the Secretary of War for the employment of William F. Friedman as cryptanalyst, \$4500 per annum, Signal Service at large, Washington, D. C., under Section 10 of Rule II Civil Service Rules, which was approved December 7, 1921. (201 Friedman, Wm. F.)

l. October 25, 1923, James J. Skelly, Clerk-typist was employed at \$1200 per annum in the Signal Service at large, Washington, D. C. as an assistant to Mr. Friedman. He was discharged for cause May 15, 1929. (201 Skelly, James J.)

m. July 19, 1929, a conference was held in this office with reference to the organization of the Signal Intelligence Service consequent upon taking over the Code and Cipher Solution and Secret Ink Services from M. I. D., at which Lt. Col. Hemphill, Major Blair Major Albright and Mr. Friedman were present. Among other things it was concluded that the primary function of the Signal Intelligence Service was to be one of training personnel for war. It was also determined that to accomplish this mission, the organization of the following services was involved:

Code and Cipher Compilation  
 Code and Cipher Solution  
 Intercept and Geometric  
 Secret Ink (231.2 Cryptanalyst)

n. December 16, 1929, funds in the sum of \$6666.68 were allotted by the Assistant Chief of Staff, G-2 to the Chief Signal Officer P/A MID-36 P 5205A 1110-0 for payment of personnel engaged on code and cipher work.

o. January 4, 1930, the Secretary of War was requested by the Chief Signal Officer to authorize the employment of four junior cryptanalysts at \$2000 per annum and one assistant cryptographic clerk at \$1620 in the Signal Service at large, Washington, D. C., for the preparation of all codes and ciphers required by the Army in accordance with changes No. 1, A. R. 105-5. "A study of the new responsibilities which rest upon the Chief Signal Officer as a consequence of these additional duties has led to the conclusion that there must be established during peace time a small section of code and cipher specialists who will be under constant training in these sciences, who will keep abreast of progress in this field and will in the initial phases of any emergency be prepared to serve as the nucleus for building up the much larger

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organization required for successful functioning of Signal Intelligence sections in war time." (231.2 Cryptanalyst)

p. January 13, 1930, above recommendation was approved by the Secretary of War.

q. March 1, 1930, Mrs. Louise N. Nelson (nee Newkirk) was appointed as Assistant Cryptographic Clerk \$1620, Signal Service at large, (201 Nelson, Louise N.)

r. March 26, 1930, authority to employ one cryptanalyst at \$312.50 per month, Signal Service at large, Washington, D. C., was requested of the Secretary of War. "The transfer of the responsibility for the solution of enemy codes and ciphers in time of war from the Military Intelligence Division, General Staff, to the Chief Signal Officer included the taking over of practically all of the records and files of the Military Intelligence Division. These records and files constitute an extremely important source of information that is of great value to the War Department as a whole and will be of inestimable value to the Signal Intelligence Service now being established to carry out the assigned mission of organization and training for efficient operation in time of war. The only man known to the Signal Corps and to the Military Intelligence Division who is qualified to do the work described in this letter is Mr. Herbert O. Yardley.---" (231.2 Cryptanalyst).

s. March 29, 1930, approved by the Secretary of War.

t. April 1, 1930, F. B. Rowlett appointed junior cryptanalyst at \$2000 per annum, Signal Service at large, Washington, D. C.

u. April 10, 1930, A. Sinkov appointed junior cryptanalyst at \$2000 per annum, Signal Service at large, Washington, D. C.

v. April 21, 1930, S. Kullback appointed junior cryptanalyst at \$2000 per annum, Signal Service at large, Washington, D. C.

w. April 22, 1930, letter from The Adjutant General, file Ag 311.5 (4-14-30) Pub.

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"2. a. Army Regulations 105-5, as amended by Changes No. 1, places the responsibility for the following activities upon the Chief Signal Officer:

- (1) Code and cipher compilation.
- (2) Code and cipher solution.
- (3) Interception of enemy radio and wire traffic.
- (4) Location of enemy radio transmitting stations by goniometric means.
- (5) Laboratory arrangements for the employment and detection of secret inks.

"b. The fundamental reason for placing the responsibility for these duties upon the Chief Signal Officer is that all correlated duties in connection with secret communication may be assigned to one operating agency for efficiency of operation. To serve this purpose these duties will be organized by the Chief Signal Officer into a single coordinated service.

"c. Within the discretion of the Chief Signal Officer it is suggested that 'Signal Intelligence Service' be the designation for this coordinated service.

"3. The general mission of this service is, as for all other military services, the proper organization and development in peace time to the end that the service may be prepared to operate at maximum efficiency in war.

"4. The specific missions of this service may be stated as follows:

"a. The preparation and revision of all codes, ciphers and other means of secret communication to be employed by the Army in time of peace and war.

"Note: In this connection it should be noted that in accordance with current Army Regulations this office is responsible for the printing of codes and ciphers, for their distribution in accordance with distribution tables prepared by the Chief Signal Officer, and for their accounting."

x. April 30, 1930, authority requested to employ one cryptanalyst aide at \$1800 per annum, Signal Service at large, Washington, D. C. in connection with compilation of codes, preparation of ciphers and cipher tables, research on new cryptographic methods and machinery, research in the solution of codes and ciphers as required by Changes No. 1, A.R. 105-5, (231.2 Cryptanalyst)

y. May 1, 1930, above recommendation approved by Secretary of War.

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z. May 13, 1930, J. B. Hurt appointed cryptanalyst aid at \$1800 per annum, Signal Service at Large, Washington, D. C.

aa. June 1, 1930, H. O. Yardley declined appointment as cryptanalyst \$312.50 per month.

bb. September 2, 1930, Lawrence Clark was appointed assistant cryptanalyst clerk \$1620 per annum, Signal Service at Large, Washington, D. C.

cc. August 23, 1935, authority of Secretary of War requested for employment of one assistant cryptographic clerk \$1620 per annum, Signal Service at Large, to replace Lawrence Clark. Approved August 26, 1935.

dd. September 28, 1935, authority of Secretary of War requested for temporary employment of one senior typist \$1440, Signal Intelligence Section, Signal Service at Large. Approved October 1, 1935. (231.3 Clerks)

ee. January 1, 1936, H. F. Bearce appointed assistant cryptographic clerk \$1620, Signal Service at Large.

ff. January 2, 1936, Lorraine C. Stephens appointed Junior Stenographer \$1440 per annum, Signal Intelligence Service, Signal Service at Large.

gg. June 3, 1936, Authority of Secretary of War requested to employ 1 junior cryptanalyst \$2000, Signal Service at Large, to replace A. Sinkov, transferred to Panama. Approved June 5, 1936. (231.2 Cryptanalyst)

hh. July 1, 1936, R. O. Ferner appointed junior cryptanalyst \$2000 per annum Signal Service at Large, Washington, D.C.

ii. August 17, 1936, S. S. Snyder appointed assistant cryptographic clerk \$1620 per annum, Signal Service at Large.

jj. February 1, 1937, authority to employ 1 junior cryptanalyst \$2000 per annum, Signal Service at large, Washington, D. C. requested, to replace S. Kullback, transferred to Hawaii.

kk. February 3, 1937, above approved by Secretary of War.

ll. April 16, 1937, M. A. Jones appointed junior cryptanalyst \$2000 per annum, Signal Service at Large, Washington, D. C.

mm. February 23, 1938, authority of Secretary of War requested for employment of 1 assistant cryptographic clerk \$1620 per annum, Signal Service at Large. Approved February 21, 1938. (231.3 Clerks)

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nn. March 1, 1938, authority of Secretary of War requested for temporary employment of 1 junior stenographer \$1440 per annum, Signal Intelligence Service, Signal Service, Signal Service at Large. Approved March 2, 1938. (231.3 Clerks)

oo. March 28, 1938, P. S. Cate appointed assistant research analyst \$2600 per annum, Signal Service at Large, Washington, D. C.

pp. July 1, 1938, Mary L. Prather appointed assistant cryptographic clerk \$1620 per annum, Signal Service at Large, Washington, D. C.

qq. July 1, 1938, Margaret A. Will appointed assistant cryptographic clerk \$1620 per annum, Signal Service at Large, Washington, D. C.

### III. Budget Estimates:

1. Provision has been made in the Budget Estimates under Project 1. Signal Service of the Army, for personnel for the Signal Intelligence Service as follows:

1922 to 1924

1 Cryptanalyst \$4500

1925 to 1928

1 Cryptanalyst \$5200

1929 to 1931

1 Cryptanalyst \$5600

1932:

1 Cryptanalyst 5600

3 Jr. Cryptanalysts \$2100 6300

1 Cryptanalyst Aide 1800

2 Asst. Cryptographic 3360

Clerks \$1680

7

17060

1933 - Project 1:

1 Cryptanalyst \$5600

3 Jr. Cryptanalysts \$2100 6300

1 Cryptanalyst Aide 2000

2 Asst. Cryptographic 3240

Clerks \$1620

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## 1934 and 1935 - Project 1:

1 Cryptanalyst	\$5600
3 Jr. Cryptanalyst \$2100	6300
1 Cryptanalyst Aide	1800
2 Asst. Cryptographic Clerks	3360
\$1680	
<u>7</u>	<u>17060</u>

## 1936 - 1937 - Project 1:

1 Cryptanalyst	5600
3 Jr. Cryptanalysts \$2100	6300
1 Cryptanalyst Aide	1860
2 Asst. Cryptographic Clerks	3360
\$1680	
<u>7</u>	<u>17120</u>

## 1938 - Project 1:

1 Cryptanalyst	5600
5 Jr. Cryptanalysts \$2060	10300
1 Cryptanalyst Aide	1860
4 Asst. Cryptographic Clerks	6600
\$1650	
<u>11</u>	<u>24360</u>

## 1939 - Project 1:

1 Cryptanalyst	5600
3 Assoc. Cryptanalysts \$3200	9600
1 Research Analyst	2600
5 Jr. Cryptanalysts \$2060	10300
4 Asst. Cryptographic Clerks	6600
\$1650	
<u>14</u>	<u>34700</u>

## 1940 - Project 1:

1 Cryptanalyst	5800
3 Assoc. Cryptanalysts \$3200	9600
1 Research Analysts	2600
2 Asst. Cryptanalysts \$2600	5200
5 Jr. Cryptanalysts \$2060	10300
1 Cryptanalysts Aide	1800
5 Asst. Cryptographic Clerks	8220
\$1644	
<u>18</u>	<u>43520</u>

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1940 - Project 24:

"Required for Signal Intelligence Service. The expanding activities of this service and additional personnel requested in Project 1 are the basis for the increase in equipment and supplies - \$1320.

Office equipment, including labor saving devices	\$1100
Office supplies	220
	<hr/> 1320

## IV. Status:

1. The Comptroller General has defined departmental and field work as follows:

"The executive departments of the Government execute the laws which Congress enacts through the instrumentalities sometimes designated 'departmental' and 'field' establishments. What is known as the 'field force' is engaged directly or indirectly in locally executing the laws, while the 'departmental force' is engaged in general supervisory and administrative direction and control of the various field forces. (21 Comp. Dec. 709, 711)

"If officers or employees are directly under the direction, supervision, and control of a Government department, establishment, or bureau reporting directly to the head thereof, their status is that of departmental officers or employees; but if they are directly under the direction, supervision, and control of a local field organization, reporting directly to the head thereof, their status is that of a field officer or employee." (27 Comp. Dec. 122)

"What is known as a 'field' force is engaged, directly or indirectly, in executing the laws locally, while a 'departmental' force is engaged in general supervisory and administrative direction and control of the various field forces. Various general laws, such as the postal laws, must be executed in the District of Columbia as well as elsewhere. A force engaged exclusively in the local execution of such laws in the District of Columbia is a field force as much so as a like force in any other section of the country. It is only in this sense that the term 'field' force may properly be applied to the District." (5 Comp. Gen. 272.273)

"A force engaged exclusively in departmental work, that is, in general supervision and administrative direction and control of the various field forces, even though with headquarters outside of the District of Columbia - in this instance at Baltimore - is nevertheless a departmental force as much so

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as the departmental force in the District of Columbia." (17 Comp. Gen 565)

2. It will be noted from the above quoted decisions of the Comptroller General that classification as to departmental or field work is based solely upon the character of the work involved, i.e., if the work consists of the supervision and administrative direction and control of the various field forces it is departmental work; if the work is performed locally and is other than the supervision and administrative direction and control of the various field forces, it is field work. It is immaterial where the work is performed. Departmental work may be performed outside the District of Columbia, while field work may be performed inside the District of Columbia, and in buildings housing departmental activities, as, for example, the Finance Officer, U.S. Army.

3. The present Signal Intelligence Service was organized as a "single coordinated service" in accordance with the direction contained in letter from the Adjutant General dated April 22, 1930, file AG 311.5 Pub. (4-14-30), paragraph 2 w above. As stated in the above mentioned directive, its general mission is "as for all other military services, (underscoring supplied) the proper organization and development in peace time to the end that the service may be prepared to operate at maximum efficiency in war", while its specific mission is "the preparation and revision of all codes, ciphers and other means of secret communication to be employed by the Army in time of peace and war".

4. The Signal Intelligence Service as at present organized is composed of 1 commissioned officer and 14 civilian employees and is operating under authority of paragraph 2 A. R. 105-5. Under this Army Regulation the Chief Signal Officer has immediate charge of "the preparation, publication, revision, storage, accounting and distribution of all codes and ciphers required by the Army". There are no specific directions as to how these duties are to be accomplished. That is a decision which is left to the Chief Signal Officer as an administrative officer of the Government, appointed by the President and confirmed by the Senate. In the discretion of the Chief Signal Officer, the duties assigned may be performed in his immediate office or by a field agency already organized or one created for the purpose.

5. As early as 1913 it was determined that the work of revising the War Department Telegraph Code was a function of the Signal Corps of the Army, rather than that of the Office of the Chief Signal Officer, and accordingly a code specialist and a clerk were employed for this work and paid from the Signal Corps of the Army Funds. (Par. 2 A and B above)

6. In 1917 the compilation of all codes required by the Army was a function of commissioned officers of the Army (Par. 2 C above) and not those assigned to the office.

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7. In 1919, 1920, and 1921 the preparation of codes required by the Army was considered as a Signal Corps function rather than a function of the Office of the Chief Signal Officer and such codes as were required were procured under contract for which Signal Corps funds were used.

8. Since 1921, all personnel engaged in the compilation of codes and since 1930, when the cipher work of the Military Intelligence Division was assigned to the Signal Corps, all personnel engaged in that work have been paid from Signal Corps funds and from those allotted from the appropriation, "Contingencies, Military Intelligence Division", a military organization.

9. The primary mission of the Signal Intelligence Service is to train personnel in code and cipher work for service with the Army in time of war (par. 11 lm above) and the preparation and revision of all codes, ciphers and other means of secret communication to be employed by the Army in time of peace and war. (Par. 11 lw above) There is nothing in the files to indicate that the training of personnel for service in the Army is a function of the Office of the Chief Signal Officer. This is a military or field function and not a departmental function. Likewise, the preparation of the codes is under the supervision of the Military Intelligence Division, War Department General Staff (A. R. 10-15), which is not a bureau or office of the War Department listed in A. R. 310-10.

10. It is apparent, therefore, that the Signal Intelligence Service is a field activity for the following reasons:

a. For over a quarter of a century the preparation of codes and ciphers has been a function of personnel paid from field appropriations, i.e. Pay of the Army, Signal Service of the Army, and Contingencies, Military Intelligence Division.

b. The employment of field service personnel on these duties has been authorized by the Secretary of War, the Director, Military Intelligence Division, and the Director of the Bureau of the Budget, and expenditures therefore have been passed without question by the General Accounting Office.

c. The Signal Intelligence Service is not a departmental organization as it is not engaged in "general supervisory and administrative direction and control of the various field forces" since there is no other field force engaged on similar or comparable duties.

11. Since it is obvious that the personnel engaged on code and cipher work constitutes a field force, as defined by

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the Comptroller General, and have been paid from Signal Corps appropriations since 1913, it is logical to conclude that all of the services, supplies and equipment required by this field force to perform their duties should be provided from field appropriations, for which adequate provision should be made in the Signal Corps budget estimates.

Edward Barnett,  
Civilian Assistant

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February 1, 1939

## MEMORANDUM FOR THE EXECUTIVE OFFICER:

I have just received from New Cumberland Depot, the attached records, which I intended to use in connection with my study of the status of the S.I.S. These files are I believe fairly representative of those pertaining to the supply of the S.I.S and have been selected at random from data available in this office.

- P 36328 dated January 6, 1933 calls for 1 mimeograph machine and accessories for the Signal Intelligence Section approved by the OIC, S & I Section and Purchase Section.
- P 36449 dated January 27, 1933, calls for supplies for the mimeograph machine which were likewise purchased in Washington, D. C.
- R 3 dated December 28, 1933, calls for miscellaneous supplies and equipment for the Signal Intelligence Section all items (30) of which except 4 were procured by the Purchase Section; the 4 items referred to were procured by NY PD.
- R 76 dated January 15, 1934, calls for mimeograph supplies and pencil leads for the Signal Intelligence Section which were procured by the Purchase Section.
- R 2856 dated April 12, 1935, calls for 2 card index cabinets for the Signal Intelligence Section which were procured by the Purchase Section in Washington.
- R 1711 dated September 27, 1934, calls for 4 cabinets and 4 extra shelves for the safe storage of codes which were procured by the Purchase Section.

It will be noted that the requisitions state specifically that this equipment and supplies are for the Signal Intelligence Service and that no question was raised by the Supply Division as to the legality of their purchase even though the Signal Intelligence Service was considered a part of the War Plans and Training Division. Since the Signal Intelligence Service is now a field activity separate and distinct from the War Plans & Training Division, it would appear that there is less doubt as to the legality of supplying this service from Signal Corps funds as there was in previous years.

Edward Barnett  
Civilian Assistant

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June 25, 1942

## MEMORANDUM FOR THE CHIEF OF STAFF:

Subject: Signal Intelligence Service  
Activities.1. Discussion

1. The Military Intelligence Service should be charged with the preparation, publication, revision, storage, accounting for, and distribution of all codes and ciphers required by the Army and, in time of war, the interception of enemy radio and wire traffic, the location of enemy radio stations, the solution of intercepted enemy code and cipher messages and laboratory arrangements for the employment and detection of secret inks.

2. a. Under the present policy and conforming to Par. 2e Army Regulations 105-5, the aforementioned duties are charged to the Signal Corps.

b. Under the provisions of Par 9a and 9b, Army Regulations 10-15, the Military Intelligence Division is charged with those duties of the War Department General Staff which relate to the collection, evaluation and dissemination of military information, including plans and policies and the supervision of all activities connected with Military Attaches and observers, intelligence personnel of all units, codes and ciphers and translations. Under the provisions of Par. 4b, Circular 59, War Department, Washington, March 2, 1942, the Military Intelligence Service under the direction of the Assistant Chief of Staff, Military Intelligence Division, War Department, General Staff, is charged with operating and administering the service of the collection, compilation and dissemination of military intelligence.

3. Early in World War I, the interception and solution of enemy messages in code and cipher became one of the most important sources of military intelligence. In our forces, G-2 was charged with the solution of enemy codes and ciphers, while the technical functions of intercepting enemy communications and compiling codes and ciphers

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for the use of the Army were performed by the Signal Corps. This rather arbitrary division of closely related functions continued until 1929.

4. On April 4, 1929, a memorandum for the Chief of Staff pointed out the anomalous character of such a division of functions and recommended that it be eliminated by vesting in the Signal Corps the duty of solving codes and ciphers, in addition to its existing duties of goniometric and intercept work and code compilation. The memorandum rested upon the proposition that the normal functions of a General Staff do not include such an operating function,--a proposition that precluded the performance of such duties by G-2, since G-2 then had no operating unit which could discharge the necessary peace-time functions of training and maintaining an adequate personnel to do this type of work. The recommendation was adopted by Changes No. 1, AR 105-5, dated May 10, 1929, and the Signal Intelligence Service was established to perform the duties thereby imposed upon the Signal Corps.

5. The duties thus charged to the Signal Corps were intelligence duties, and their only relation to the work of the Signal Corps lay in the fact that some of them had to be performed by personnel with technical training similar to that possessed by Signal Corps personnel. Every enemy tele-communication or dispatch is raw material of military intelligence. Every process involved in obtaining the communication--the location of the transmitting station, the interception of the message, the solution of the code or cipher, the translation of the message and its evaluation as military intelligence and, subsequently, the presentation of the information resulting is an activity concerned with the collection, evaluation and dissemination of military intelligence,--duties which are specifically given to G-2. While the 1929 reorganization may have been best calculated to meet practical necessities in peace-time, it had the effect of vesting in a service organization, composed of personnel untrained in military intelligence, control over the collection of one of the most important types of military intelligence. The result was a division of function, authority and responsibility between the two agencies.

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6. The inherent weakness of the division of responsibility between S.I.S. and G-2 did not become apparent in time of peace, because the chief problem was one of training personnel, and that could be done by the Signal Corps under general policy supervision by G-2 through the ordinary channels. With the outbreak of hostilities, however, the need for speedy and efficient functioning of all intelligence gathering activities under a unified control has become vital. This was recognized in the establishment of a Military Intelligence Service to serve under the Assistant Chief of Staff, G-2, for the operation of all activities connected with collection, evaluation and dissemination of military intelligence.

7. It is believed that the present division of responsibility between M.I.S. and S.I.S. prevents either of them from doing an adequate intelligence job in relation to enemy communications. It is impossible in time of war to intercept more than a small fraction of all enemy communications, or to solve in time for use more than a fraction of the frequently changing codes and ciphers, or to decode the whole body of intercepted material, or to reduce most of the decoded communications to accurate English translation. Hence the war-time conduct of intercept and decoding activities requires many decisions every day upon questions of intelligence policy, and there must be no delay in the making of those decisions.

8. Decisions must be made as to the hours of activity and the direction of activity of intercept stations, upon the enemy codes and ciphers to which crypt-analytical activities shall be directed, upon the priority to be given to different classes and sources of material in decoding and translation, and upon the assignment of personnel and use of equipment. These daily decisions have at least as determinative an effect upon the amount and character of the intelligence produced as have the broad policies laid down by G-2. All such daily decisions are "intelligence" decisions, which should be made by persons having intelligence training and a background of knowledge of other types of available intelligence.

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9. The present division of responsibility makes it difficult for G-2 either to make those decisions or to guide them effectively. The general policies enunciated by G-2, through channels, cannot in the nature of things furnish an adequate guide to the S.I.S. in making daily decisions under ever-changing circumstances. Nor, however good the liaison, can the officers of the S.I.S. be kept informed of intelligence available from other intelligence sources, a knowledge of which is essential to a proper appraisal of the relative value of material of different classes and from different sources. Nor does the ability of G-2 to change plans and policies from time to time furnish an adequate mechanism for shifting the direction of work speedily, according to the changing needs of information. The result is that G-2 has only a limited control over this extremely important source of intelligence, while the officers of the Signal Corps are burdened with decisions requiring training and information that they do not have.

10. Consolidation of S.I.S. in M.I.S. would facilitate collaboration between the personnel of the two agencies, and thus aid the efforts of both. Since translations are often only approximate, and various meanings are frequently possible, such collaboration can materially assist those charged with the analysis and evaluation of material produced by S.I.S. Similarly, collaboration may be very useful to cryptanalytic personnel, because the availability of abundant collateral intelligence material is often of great value in breaking down enemy codes. Under the present organizational structure, the two groups of personnel are inevitably insulated from each other to some extent, no matter how close the degree of liaison and cooperation, and the maintenance of liaison in itself involves a certain loss of time and effort.

11. The duties of code and cipher compilation, code and cipher solution, goniometric location of enemy stations and interception of enemy communications, and secret ink detection and production are all closely related in purpose, in technique and in practical operation. With regard to code and cipher compilation, it is virtually axiomatic that the only persons competent to produce adequately secure codes and ciphers are those who have ability and experience in the analysis of codes and

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ciphers, and these two duties should therefore not be separated.

12. The Military Intelligence Service already performs the duty of training military attaches, observers and other personnel in cryptographic methods and security, and it, not the Signal Corps, specifies the degrees of cryptographic security which these officers and agents require. Likewise, it is the agency which is most likely to discover that a cryptographic system has been compromised. G-2 is charged with safeguarding military information, and insuring the use of secure cryptographic systems is a most important phase of that duty. For all these reasons the Military Intelligence Service should be charged with the duty of preparing codes and ciphers and putting them in use.

13. Goniometric location and intercept activities furnish the raw material for cryptanalytic activities and are closely related to other intelligence work. Detection of secret inks is purely an intelligence function and inks produced for our forces will be used by M.I.S. operatives. All of these duties should, therefore, be treated as a unit and charged to the Military Intelligence Service.

## II. Action Recommended

The Secretary of War directs:

1. That the Military Intelligence Service be charged with the duties pertaining to the preparation, publication, revision, storage, accounting for and distribution of all codes and ciphers required by the Army, and in time of war the interception of enemy radio and wire traffic, the location of enemy radio stations, and solution of intercepted enemy code and cipher messages and laboratory arrangements for the employment and detection of secret inks.

2. That Army Regulations 105-5, Par. 1e specifying in part the duties of the Chief Signal Officer be rescinded.

3. That all Field Manuals, regulations and existing instruction material be amended in accordance with this policy.

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4. That all personnel commissioned, enlisted, and civilian now engaged in Signal Intelligence activities under the control of the Chief Signal Officer, together with all approved and authorized increases in personnel in the foregoing categories, be transferred from the Signal Intelligence Service of the Signal Corps to the Military Intelligence Service.

5. That all records, archives, libraries, equipment, installations, schools, plants and stations, and all other property and appurtenances pertaining to Signal Intelligence activities be transferred from the Signal Corps to the Military Intelligence Service.

III. Concurrence

OPD.

GEO. V. STRONG  
Major General,  
A. C. of S., G-2

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 WAR DEPARTMENT  
 WAR DEPARTMENT GENERAL STAFF  
 MILITARY INTELLIGENCE DIVISION, G-2  
 WASHINGTON 25, D. C.

17 December 1944.

MEMORANDUM FOR THE CHIEF, MIS.

SUBJECT: Operational Command and Control of the Signal Security Agency and the 2nd Signal Service Battalion.

1. Under date of 15 December 1944, a memorandum was dispatched to all activities concerned, forwarding a copy of the action of the Deputy Chief of Staff on the above subject as contained in his memorandum of 10 December 1944.
2. The forwarding memorandum indicated that the A.C. of S., G-2 would exercise his operational command and control through the Chief, MIS.
3. This is to confirm the verbal instructions issued this morning to the effect that I desire the Chief, MIS to delegate complete MIS responsibility for all action in connection with these activities to the Assistant Chief, MIS, General Clarke. The reasons were given and both the Chief and the Assistant Chief, MIS indicated understanding and agreement of this directive.

*Clayton Bissell*  
 CLAYTON BISSELL  
 Major General  
 A.C. of S., G-2

1st Ind.

Chief, Military Intelligence Service, 18 December 1944.

To: Deputy Chief, MIS (General Clarke).

In accordance with the above directive, complete MIS responsibility for all action in connection with the above noted activities is hereby delegated to you.

*R. A. Osmun*  
 R. A. OSMUN,  
 Brigadier General,  
 Chief, Military Intelligence Service.

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SPSIS-3

June 29, 1942

SUBJECT: Signal Intelligence Service

MEMORANDUM FOR: Colonel Thomas North, OPD

I. The problem presented.

Should the Signal Intelligence Service be transferred from the Signal Corps to the Military Intelligence Service?

II. Facts bearing on the problem.

1. The functions of the Signal Intelligence Service are now as follows:

a. Obtains the raw material for cryptanalytic operations (intercept) and for locating enemy radio stations (direction finding).

b. Directs and coordinates the activities of radio intelligence companies through the CG's of Ground Forces and Air Forces, including preparation of T/O's and T/BA's.

c. Processes the raw material into clear text and forwards it to G-2.

d. Conducts continuous research and study of traffic analysis (non-cryptanalytic) based on fixed point-to-point traffic loads, and tactical traffic loads.

e. Compilation, storage, distribution, accounting of codes and ciphers for own use.

f. Development, procurement, distribution, maintenance, and operation of cryptographic machinery for all echelons of command.

g. Preparation of secret inks for use by own own agents, detection of secret inks used by enemy agents.

h. Responsibility and control of security of cryptographic operations throughout all echelons of command, including preparation of training and operations literature on this subject.

i. Liaison with organizations performing in U. S. Navy and other departments of U. S. Government; same as regards military and air forces of other members of United Nations.

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Col. T. North, OPD  
6-29-42

1. Training of personnel for exercising all foregoing functions.
2. The current general directive governing the mission of SIS is being complied with.
3. From a historical standpoint the cryptanalytic service was at one time under G-2 but in 1929 was transferred to the Signal Corps because of certain disadvantages in its operation under G-2, as will be shown below. Appended hereto is a historical sketch which may be of interest in this connection. A pamphlet entitled "Organization and Duties of the Signal Intelligence Service", with a supporting chart, is also included.

III. Discussion.

1. The subject can be discussed under the two headings, advantages and disadvantages:

a. The advantages that would accrue from the proposed transfer are limited to one and only one, viz, the Military Intelligence Service, which uses the information furnished it by SIS cryptanalysis, would have direct operating control rather than indirect, supervisory control over the cryptanalytic functions of the SIS. But this direct control would be limited to those functions which are only a part of the many functions for which SIS is now responsible.

b. The disadvantages that would arise from the proposed transfer are four in number:

(1) While it is recognized that the MIS has certain operative functions, as outlined in Par. 4b of Circular 59, W.D., March 2, 1942, these can be considered to apply ~~only to~~ <sup>in reality to but</sup> one phase of signal intelligence operations, namely, the cryptanalytic. However, the technical functions of SIS are entirely operative and run through all echelons of command. They include the security of all military communications. In achieving and maintaining this security, the collection of military information useful to G-2, <sup>and its processing into military intelligence</sup> by SIS cryptanalytic operations, is an inseparable corollary function. The SIS is a highly technical service, requiring close coordination as regards the employment of cryptography with all wire and radio communication facilities. The SIS thus serves not only G-2 but also all other staff and command sections, especially operations, for without good cryptographic functioning of signal communications, military field operations cannot be successfully carried out. Therefore, the taking over by MIS of all SIS functions and operations would very adversely affect efficiency of communications security. <sup>all signal</sup>

(2) Information of the enemy obtainable through observation by signal intelligence agencies is divided into two categories:

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Col. T. North, CPD  
6-29-42

- (a) Technical signal information which requires digest, interpretation, and correlation by a signal intelligence service to convert it to a form usable by military intelligence agencies.
- (b) Information which from its nature is directly usable by military intelligence agencies.

If MIS is to continue to receive intelligence of the nature of that covered by (a) above, it must be prepared to produce the basic technical signal information from which the intelligence is derived. Signal intelligence and signal communications are inseparable.

(3) The Chief Signal Officer is charged with the development, procurement, storage, issue, and maintenance of all cryptographic equipment and supplies. This falls within the province of the CG, SOS and the procurement agency now established in SIS. The transfer of all SIS functions to MIS would therefore bring up technical problems which a staff agency is normally incapable of handling.

(4) Signal intelligence training is a problem of first magnitude and importance. It begins with basic training in signal communication. This is obviously a function of the Chief Signal Officer and cannot adequately be conducted by MIS. Moreover, this basic training requirement limits the supply of trained commissioned and enlisted personnel for signal intelligence duty to the Signal Corps. The MIS has no known source of supply of highly trained technical personnel.

2. [If the Director of Military Intelligence desires greater coordination of cryptanalytic operations than he feels now can be exercised by him, the Chief Signal Officer would concur in the assignment of a qualified military intelligence officer to duty directly in SIS, to represent G-2 in the coordination of all current and projected cryptanalytic work.] This would be analogous to the situation in the Navy, in which all SIS work is under direct control of the Director of Naval Communications (= Chief Signal Officer) but an officer of Naval Intelligence is assigned to Navy SIS. Moreover, in the Navy the evaluation of the information obtained by cryptanalysis is now directly under Navy SIS and is considered an inseparable corollary function of SIS. The evaluation work itself is conducted by Navy SIS personnel not ONI personnel.

#### IV. Recommendations.

1. That no change be made in the existing organization as far as concerns control of the functions of SIS under the Chief Signal Officer.

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Col. T. North, OPD  
6-29-42

2. That SIS be given responsibility for evaluating the information obtained by it from its cryptanalytic and radio intelligence operations.

3. If desired by MIS, that a military intelligence officer be assigned to duty in SIS for the purpose of ensuring greater coordination and supervision of SIS cryptanalytic activities.

Dawson Olmstead,  
Major General,

Chief Signal Officer of the Army.

3 Incls.

- #1 "A brief history of the Signal Intelligence Service" with four exhibits
- #2 Mimeograph pamphlet--"Organization and duties of the Signal Intelligence Service."
- #3 Organization chart of SIS.

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WAR DEPARTMENT  
WAR DEPARTMENT GENERAL STAFF  
MILITARY INTELLIGENCE DIVISION G-2

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Memo for Col. Collins: -

Confirming  
our phone conversation, I am  
enclosing a copy of the order I  
told you about.

Please have all  
papers affecting signal  
intelligence in any of its  
various aspects come direct  
to me.

*EWB*

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ARMY SERVICE FORCES  
SIGNAL SECURITY AGENCY  
WASHINGTON 25, D. C.

Secret

By Authority of the  
Chief Signal Officer

Initials Date



SPSIS-1A

16 April 1945

MEMORANDUM FOR DEPUTY CHIEF, MILITARY INTELLIGENCE SERVICE

SUBJECT: Allocation of Responsibilities of the Office of the Chief Signal Officer and Signal Security Agency as Modified by Memorandum from Deputy Chief of Staff, 10 December 1944.

## DISCUSSION

1. Under the provisions of the memorandum of 10 December 1944 from the Deputy Chief of Staff (Inclosure 1):

a. Operational command and control of Signal Security Agency and Second Signal Service Battalion was transferred to Assistant Chief of Staff, G-2.

b. Such activities of the Signal Corps, responsibility for which is charged to the Chief Signal Officer under Paragraph 2 p, Army Regulations 105-5, will continue to be performed by Signal Security Agency and the Second Signal Service Battalion.

c. No change is effected as to the responsibility of the Office of the Chief Signal Officer in regard to the provisions calling for the preparation, publication, revision, storage, accounting for and distribution of all codes and ciphers required by the Army.

d. Liaison with friendly foreign powers, the Navy, other United States government agencies, and the United States Theater Commanders on all matters in connection with signal intelligence is reserved as a responsibility of Assistant Chief of Staff, G-2.

(1) Signal intelligence is defined for the purposes of this memorandum in the sense of "intelligence," in Paragraph 2, Page 144 of Training Manual 20-205, as "information of military value." In connection with Signal Security Agency operations, this definition includes specifically all information derived from the interception of enemy communications.

e. The Assistant Chief of Staff, G-2, will control all movement of military or civilian personnel to or from the Signal Security Agency or Second Signal Service Battalion.

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SPSIS-1A (16 April 1945)

f. The Chief Signal Officer will continue to be responsible for Signal Security Agency and Second Signal Service Battalion insofar as Signal Corps functions prescribed in Paragraph 2, Army Regulations 105-5, relate to those activities other than as specifically excepted.

g. The Chief Signal Officer will continue to be responsible for the technical control of equipment in the same manner as for any other signal equipment.

2. Detailed allocation of the responsibilities of these functions and the chain of command are as follows:<sup>1</sup>

a. Functions relating to preparation, publication, revision, storage, accounting for and distribution of all codes and ciphers required by the Army:

(1) Policy established by G-2 and forwarded to the Office of the Chief Signal Officer, who remains responsible to Commanding General, Army Service Forces, for execution of policies established.

(2) Chain of command responsibility.

(a) Assistant Chief of Staff, G-2.

(b) Commanding General, Army Service Forces.

(c) Office of the Chief Signal Officer.

(d) Signal Security Agency.

(3) Functions of the Office of the Chief Signal Officer:

(a) The development, coordination, standardization, procurement, storage, issue, and repair of:

1. Signal communication, cryptographic, and meteorological equipment and supplies, except repairs under the jurisdiction of commanding generals of service commands.

1. References: Army Regulations 105-5; CCSigO Memorandum, Serial Number 2, dated 1 January 1945, subject "Functional Responsibilities"; Memorandum from Deputy Chief of Staff, dated 10 December 1944, subject "Signal Security Agency and 2nd Signal Service Battalion."

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SPSIS-1A (16 April 1945)

2. All electrical apparatus for radio direction finding and for range finding.
3. Photographic supplies and equipment except that required for:
  - a. Photographic and cinematographic work made from aircraft.
  - b. Ground photography in connection with aircraft operation and maintenance.
  - c. Other special purposes for which the procurement, storage, issue, and repair have been specifically charged to another arm or service.
4. All sound recording equipment relating to communications. This includes equipment employed wholly or in part for the recording of radio and wire telephone and telegraph conversations, messages, and signals of all types, high speed radio and wire telephone and telegraph signals, intercepted radio and wire telephone and telegraph signals and other similar applications, including sound recording devices for recording conferences. Necessary accessories, supplies, and reproducing equipment are included. Office dictating equipment to be used solely for dictation and transcription in connection with stenographic work and not to be associated or connected with communications is not included.
  - (b) The general coordination and standardization of all radio operations and the enforcement of regulations concerning the same.
  - (c) The assignment of call letters, radio frequencies, power, and types of emissions for all Army radio stations.
  - (d) The maintenance, for the Chief of Staff and the Commanding General, Army Service Forces, of digests of military and technical characteristics of signal equipment in the Navy and in foreign military forces.

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- (e) Recommendations to the Commanding General, Army Service Forces, on the proper allowances of Signal Corps equipment in Tables of Basic Allowances and Tables of Allowances of the arms and services, except the Army Air Forces and Signal Corps aviation units.
  - (f) Recommendations to the Commanding General, Army Service Forces, on uniform methods and procedures for the use of signal communication equipment.
- (4) Functions performed at Signal Security Agency:
- (a) Protective Security. Development and execution of all policies concerning the development, production, and use of radio and radar countermeasures and radio deception. (Those functions pertaining to countermeasures are now in process of being transferred to Engineering and Technical Service.)
  - (b) Communications Security. Responsibility for provision of sound cryptographic systems, use and supervision of actual usage, security against all forms of analysis by the enemy, preparation and review of instructions, security documents, and indoctrinational material.
  - (c) Cryptographic Materiel. Responsibility for production and distribution of cryptographic documents and devices.
  - (d) Invention and Development. Responsibility for invention and development of all cryptographic and cryptanalytic apparatus.
  - (e) Liaison. Maintains liaison on technical matters relating to security or to coordination, in the production, distribution, and accounting for cryptographic material with other Arms or Services, the Navy, and friendly foreign powers.
  - (f) Training:
    - 1. The coordination of the training of personnel assigned to signal communication duties, under instructions prescribed in orders of the War Department.

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SPSIS-LA (16 April 1945)

2. The training of civilian personnel required in the operation of agencies of the Signal Corps.
  3. The training of specialists required by Signal Corps units except those trained in units or in schools not under the jurisdiction of the Commanding General, Army Service Forces.
  4. Promulgation of training doctrine, scheduling programs, and conduct and supervision of training in Signal Corps schools, unit training centers, and the selection, assignment, and relief of training staff and faculty personnel assigned thereto; determination of major policies regarding the training of signal communication officers and specialists in civilian institutions, and supervision as to the maintenance of standards in such institutions.
  5. The preparation and revision of all books, pamphlets, and instruction data required by the Army to make proper use of all equipment and apparatus developed, procured, and issued by the Signal Corps.
- b. Functions relating to Second Signal Service Battalion: 7
- (1) The Chief Signal Officer will continue to be responsible for Second Signal Service Battalion.
- c. Functions relating to intelligence:
- (1) Operational command.
    - (a) A function of G-2.
  - (2) Chain of responsibility.
    - (a) Assistant Chief of Staff, G-2.
    - (b) Signal Security Agency.
  - (3) Functions performed by G-2:
    - (a) Assistant Chief of Staff, G-2, will exercise operational command through Commanding Officer,

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SPSIS-1A (16 April 1945)

Signal Security Agency, over all functions of Signal Security Agency relating to intelligence as outlined in the following:

1. Functions performed by Signal Security Agency under operational command of G-2.
  - a. Supervision and coordination of all activities concerned with the deriving of intelligence from the interception of foreign cryptographic communications.

d. Functions relating to liaison on intelligence with friendly foreign powers, the Navy, other United States government agencies, and United States Army Theater Commanders, on all matters in connection with signal intelligence are the responsibility of Assistant Chief of Staff, G2.

e. Functions relating to administration, Signal Security Agency:

(1) Military Personnel.

(a) Personnel responsibilities of the Chief Signal Officer:

1. The handling of routine requests for the transfers in and out of Signal Security Agency of military personnel - both officers and enlisted, subject to concurrence of Assistant Chief of Staff, G-2.
2. The procurement of fillers and replacements for:
  - a. Signal Security Agency.
  - b. Signal cryptographic training activities as conducted by Signal Security Agency.
3. The withdrawal of fillers and loss replacements from signal cryptographic training activities if requirements are placed upon Chief Signal Officer.
4. The processing of transfers of personnel outside of continental limits of the United States.

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SPSIS-1A (16 April 1945)

5. Procurement of personnel for Table of Organization units attached to Signal Security Agency and disposal of unusable personnel from such units.
6. Making of readjustments of personnel authorizations within current allotment.
7. Summarization of Ap-1 reports.
8. Handling of efficiency reports as per letter, 23 January 1945.
9. The summarization of reports of travel.
10. Processing of relief from active duty of surplus officers.
11. Awarding of Meritorious Service Plaque.
12. Processing of any reclassification cases through the Chief Signal Officer's Reclassification Board in the event request is made by the Commanding Officer, Signal Security Agency.

## (b) Personnel Responsibilities of G-2:

1. Processing of requests for increased personnel allotments (information copy to be furnished Chief Signal Officer).
2. Administration of work load studies.
3. Processing of promotion cases as per letter, 23 January 1945.
4. Supervision of adherences to War Department personnel policies, i.e., War Department Circular 356, Army Service Forces Circular 193, etc.
5. Processing of recommendations for awards. It is probable that the War Department Decorations Board will refer any cases brought up to G-2 to the Chief Signal Officer for his concurrence.



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6. Inspection and survey of WAC personnel. Since G-2 has no WAC staff director, it is possible that Colonel Hobby may make some change in this procedure.
7. Delegation of the authority to issue travel orders within the continental limits of the United States of all military personnel and to effect the reassignment of officers between Signal Security Agency and the Second Signal Service Battalion.

(2) Civilian Personnel.

(a) Responsibility of Assistant Chief of Staff, G-2:

1. Placement and utilization of civilian personnel in the Signal Security Agency.
2. Work measurement studies.
3. Work simplification studies.
4. Utilization of personnel studies.

(b) Responsibility of Chief Signal Officer:

1. War Department Suggestion Program.
2. Civilian Award Program.
3. Civilian Efficiency Ratings.
4. Deferments.
5. Classification.
6. Wage Administration.
7. Training (except technical training).
8. Participation in Drives (War Bonds, Red Cross, Community Chest, Mile O'Dimes, etc.).

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SPSIS-1A (16 April 1945)

9. Procedures and Records.
10. Employee Relations.
11. Grievances.

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HEADQUARTERS  
ARLINGTON HALL STATION

6 July 1943

Subject: Costs, Three Stations

To: Assistant Executive Officer

1. Chart herewith submitted is from inclosed documents, verbal statements and estimates:

ANALYSIS	A.H.	V.H.	T.H. <sup>R</sup>	TOTALS
Acquisition	\$550,000.00	\$110,000.00	\$91,281.00	\$851,281.00
Construction	4,005,267.00	1,492,198.00	561,213.00	6,058,678.00
Equipment	2,060,000.00	100,000.00	90,000.00	2,250,000.00
Motor Pool	35,000.00	70,000.00	12,000.00	117,000.00
Util. & Post Engineer	98,000.00	3,000.00	29,500.00	130,500.00
Tel. Tel. & Tel.	25,000.00	5,000.00	2,000.00	32,000.00
ALREADY EXPENDED	\$6,873,267.00	\$1,780,198.00	\$765,994.00	\$9,439,459.00

2. Monthly estimated running costs, continue columns in 1. above:

Civilian Payroll	\$553,239.00	\$5,589.00	\$3,933.00	\$562,761.00
E.M. Payroll	45,464.00	104,808.00	19,174.00	169,446.00
E.M. Rations	13,500.00	29,000.00	5,500.00	48,000.00
Officers Payroll	120,000.00	24,066.00	3,900.00	147,966.00
Equipment (including l.E.M. rental)	175,000.00	6,500.00	1,500.00	183,000.00
Util. & Post Engineer	20,000.00	11,000.00	7,000.00	38,000.00
Tel. Tel. & Tel.	2,000.00	400.00	180.00	2,580.00
Motor Pool	400.00	800.00	100.00	1,300.00
MONTHLY COSTS	\$929,603.00	\$182,163.00	\$41,287.00	\$1,153,053.00

3. Apportionate W.D., General Staff and OCSdg costs not included.

By order of Colonel Corderman:

J. J. S. Doyle  
2nd Lt., Signal Corps

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Date

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6 July 1943

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 HEADQUARTERS  
 ARLINGTON HALL STATION

yes

10 July 1949

SUBJECT: Costs Analysis, Arlington Hall Station

TO: Assistant Executive Officer

1. Acquisition:

a. School Plant	\$650,000.00		
b. 4.3 Acres in litigation	0		\$650,000.00

2. Construction, outside

a. Clearing, Grading, Drainage

(1) Clearing	46,886.00		
(2) Grading	13,044.00		
(3) Excavation	87,021.00	\$146,951.00	

b. Sewers

(1) Storm	184,461.00		
(2) Sanitary	71,449.00	\$255,910.00	

c. Distribution Systems

(1) Water	106,883.00		
(2) Electric	140,374.00		
(3) Gas	8,785.00	\$257,982.00	

d. Roads and Walks		\$124,127.00	\$755,030.00
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3. Construction, permanent buildings:

a. Operations Buildings

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1. Operations "L"	1,533,922.00	
2. Operations "L"	1,362,149.00	
b. Cafeteria	89,528.00	
c. Sixteen (16) T.O. Barracks	84,376.00	
d. Two (2) T.O. Lavatory Buildings	14,376.00	
e. Mess Hall	18,742.00	
f. F.X., Infirmary, Fire House, Storehouse, Gas Station and Incinerator, no separate cost	43,856.00	3,142,949.00
4. Rehabilitation of existing structures		
a. Adm. Bldg.	25,075.00	
(1) Annex	11,782.00	
b. Boiler House	2,917.00	
c. Warehouse	33,025.00	
d. Alarm Fence	33,428.00	
e. Flagpole	1,061.00	107,288.00
5. Equipment and Supplies		
a. Western Electric job in "E"	918,000.00	
b. Other equipment	245,000.00	
c. Research Development, Crypt.	260,000.00	
d. Supplies		
(1) General	143,000.00	

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(2) Photographic	215,000.00		
(3) Books, training	3,000.00		
e. Utilities	14,000.00		
f. Service	5,000.00		
g. Construction	5,000.00	1,610,000.00	
h. Procurement and Accounting Division Purchases			
(1) I.S.M. Rental	150,000.00		
(2) Supplies	150,000.00		
(3) Equipment	150,000.00	450,000.00	38,060,000.00
6. Motor Pool			
a. Nine (9) Passenger Cars	7,200.00		
b. Seven (7) half-ton trucks	5,600.00		
c. Seven (7) ton and one-half trucks	9,100.00		
d. Two (2) Shuttle buses	2,000.00		
e. Tools, supplies, equipment	11,100.00		35,000.00
7. Utilities and Post Engineer Costs			
a. Maintenance, repairs, additions and operations, 9 Sept. 1943 to 30 June 1943, including administration			98,000.00
8. Communications			
a. Telephone, to end fiscal year	21,402.00		
b. Teletype, to end fiscal year	3,467.00		

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c. Telegraph, to end fiscal year	\$181.00	25,000.00
9. Grand total, excluding other running expenses		<u>4,005,367.00</u>

By order of Colonel Gorderman:

*F. J. S. Doyle*  
F. J. S. Doyle  
Snd Lt., Signal Corps

1 Incl.  
Copy costs

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HEADQUARTERS

ARLINGTON HALL STATION

31 December 1943

SISIS 121.6

SUBJECT: Costs, Three Stations

TO: Assistant Executive Officer

1. Chart herewith submitted is from estimates received and personally obtained:

ANALYSIS	A.F.	V.N.	T.S.	TOTALS
Acquisition	\$550,000.00	\$110,000.00	\$91,281.00	
Construction	4,113,220.00	1,526,045.00	957,877.00	\$6,607,142.00
Equipment	* 5,760,000.00	140,000.00	100,000.00	6,000,000.00
Motor Pool	45,416.00	85,000.00	14,300.00	144,716.00
Util. & Post Engineer	230,395.00	102,478.00	47,110.00	386,983.00
Tel. Tel. & Tel.	42,226.00	5,000.00	6,000.00	57,226.00
<b>ALPHABET EXPENSE</b>	<b>\$13,847,257.00</b>	<b>\$1,972,523.00</b>	<b>\$1,216,668.00</b>	<b>\$17,046,348.00</b>

2. Monthly estimated running costs, continue columns in 1. above:

Civilian Payroll	\$ 600,000.00	\$ 7,000.00	\$ 3,300.00	\$610,300.00
EM Payroll	40,000.00	150,000.00	40,000.00	230,000.00
EM Rations	14,670.00	32,448.00	8,295.00	55,413.00
Officer's Payroll	107,552.00	13,162.00	6,056.00	126,770.00
Equipment (including IM rental)	55,000.00	4,000.00	1,000.00	60,000.00
Util. & Post Engineer	15,000.00	15,000.00	4,000.00	34,000.00
Tel. Tel. & Tel.	2,600.00	800.00	400.00	3,800.00
Motor Pool	400.00	1,500.00	300.00	2,200.00
<b>MONTHLY COSTS</b>	<b>\$944,362.00</b>	<b>\$223,930.00</b>	<b>\$63,361.00</b>	<b>\$1,231,653.00</b>

3. Apportionate H.Q., General Staff and COSIG costs not included.

By order of Colonel Cordery:

J. J. S. Doyle  
1st Lt., Signal Corps

1 Incl.

Ltr. dtd 7/6/43, subj. "Costs, Three Stations"

\* Includes \$5,500,000 of Developments and Funds transferred from Ground Signal Agency to S.S.A.

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SPSIS 121.8

HEADQUARTERS  
ARLINGTON HALL STATION

30 June 1944

SUBJECT: Costs, Three Stations

TO: Assistant Administrative Officer

1. Chart herewith submitted is from estimates received or personally obtained:

ANALYSIS	A.H.	V.H.	T.P.	TOTALS
Acquisition	\$650,000.00	\$110,000.00	\$91,281.00	\$851,281.00
Construction	4,930,196.00	1,551,045.00	1,017,877.00	7,499,118.00
**Equipment	*9,447,000.00	244,000.00	101,000.00	9,792,000.00
Util. & Post Engineer	416,595.00	135,808.00	69,000.00	621,403.00
Tel. Tel. & Tel.	60,226.00	11,000.00	8,500.00	79,726.00
ALREADY EXPENDED	\$18,503,817.00	\$2,051,863.00	\$1,287,258.00	\$21,843,938.00

2. Monthly estimated running costs, continue columns in 1. above:

Civilian Payroll	\$831,269.00	\$7,500.00	\$4,500.00	\$843,269.00
Enl Payroll	54,000.00	78,000.00	39,000.00	171,000.00
Enl Rations	21,120.00	19,110.00	12,660.00	52,890.00
Officer's Payroll and allowances	165,688.00	35,974.00	4,200.00	205,862.00
**Equipment	95,000.00	12,000.00	1,000.00	108,000.00
Util. & Post Engineer	30,000.00	22,635.00	5,000.00	57,635.00
Tel. Tel. & Tel.	3,000.00	1,100.00	600.00	4,700.00
MONTHLY COSTS	\$1,200,097.00	\$176,319.00	\$66,980.00	\$1,443,396.00

3. Apportionate W.D., General Staff and CCSigO costs not included.

*JK*  
J. J. S. Doyle  
1st Lt., Signal Corps

\*Includes \$5,500,000 of Developments and Funds transferred from Ground Signal Agency to S.S.A.

\*\*Includes IBM rental

CIVILIAN PAYROLL BUDGET  
Arlington Hall Station  
Fiscal Year 1944

Professional

1	Director of Communications Research, P-8 @ \$8,000	\$ 8,000.00
1	Chief Radio Engineer, P-8 @ \$8,000	8,000.00
1	Head Cryptanalyst, P-7 @ \$6500.00	6,500.00
2	Principal Research Analysts, P-6 @ \$5600	11,200.00
6	Senior Research Analysts, P-6 @ \$4999.92	29,999.52
9	Senior Cryptanalysts, P-5 @ \$4999.92	44,999.28
4	Radio Engineers, P-4 @ \$4428.24	17,712.96
19	Research Analysts, P-4 @ \$4428.24	84,136.56
20	Cryptanalysts, P-4 @ \$4428.24	88,564.80
34	Associate Research Analysts, P-3 @ \$3828.24	130,160.16
6	Associate Radio Engineers, P-3 @ \$3828.24	22,969.44
49	Associate Cryptanalysts, P-3 @ \$3828.24	187,583.76
104	Assistant Research Analysts, P-2 @ \$3163.20	328,972.80
124	Assistant Cryptanalysts, P-2 @ \$3163.20	392,236.80
12	Assistant Radio Engineers, P-2 @ \$3163.20	37,958.40
104	Jr. Research Analysts, P-1 @ \$2433.12	253,044.48
140	Jr. Cryptanalysts, P-1 @ \$2433.12	340,636.80
10	Jr. Radio Engineers, P-1 @ \$2433.12	24,331.20
		2,017,006.96

Sub-Professional

20	Chief Cryptographic Specialists, SP-8 @ \$3163.20	63,264.00
37	Principal Cryptographic Specialists, SP-7 @ \$2798.16	103,531.92
57	Senior Cryptographic Specialists, SP-6 @ \$2433.12	138,687.84
219	Cryptographic Specialists, SP-5 @ \$2190.00	479,610.00
270	Assistant Cryptographic Specialists, SP-4 @ \$1970.88	532,137.60
118	Junior Cryptographic Specialists, SP-3 @ \$1752.00	206,736.00
		1,523,967.36

CAF

1	Sr. Adm. Officer, CAF-12 @ \$4999.92	4,999.92
1	Jr. adm. Officer, CAF-10 @ \$4128.24	4,128.24
3	Sr. Adm. Assistants, CAF-9 @ \$3828.24	11,484.72
3	Adm. Assistants, CAF-8 @ \$3528.24	10,584.72
1	Head Cryptographic Clerk, CAF-7 @ \$3163.20	3,163.20
4	Jr. Admin. Assistant, CAF-7 @ \$3163.20	12,652.80
4	Procedure Analysts, CAF-7 @ \$3163.20	12,652.80
42	Principal Cryptographic Clerks, CAF-7 @ \$3163.20	132,854.40
4	Principal Clerk & Stenographers, CAF-6 @ \$2798.16	11,192.64
5	Principal Clerks, CAF-6 @ \$2798.16	13,990.80

CAF (Cont'd)

3	Sr. Supervisor, Machine Tab. Unit, CAF-6 @ \$2798.16	8,394.48
25	Sr. Cryptographic Clerks, CAF-5 @ \$2433.12	60,828.00
58	Sr. Clerk-Stenographers, CAF-5 @ \$2433.12	141,120.96
11	Sr. Clerk-Typists, CAF-5 @ \$2433.12	26,764.32
25	Supervisors, Machine Tab. Unit, CAF-5 @ \$2433.12	60,828.00
101	Cryptographic Clerks, CAF-4 @ \$2190.00	221,190.00
94	Clerk Stenographers, CAF-4 @ \$2190.00	205,860.00
17	Clerks, CAF-4 @ \$2190.00	37,230.00
58	Clerk-Typists, CAF-4 @ \$2190.00	127,020.00
85	Jr. Supervisors, Machine Tab. Unit, CAF-4 @ \$2190.00	186,150.00
181	Assistant Cryptographic Clerks, CAF-3 @ \$1970.88	356,729.28
70	Assistant Clerk-Stenographers, CAF-3 @ \$1970.88	137,961.60
67	Assistant Clerks, CAF-3 @ \$1970.88	132,048.96
149	Assistant Clerk-Typists, CAF-3 @ \$1970.88	293,661.12
135	Sr. Tab. Machine Operators, CAF-3 @ \$1970.88	266,068.80
50	Sr. Card Punch Operators, CAF-3 @ \$1970.88	98,544.00
10	Mimeograph Operators, @ \$1970.88	19,708.80
50	Assistant Electrical Technicians, CAF-3 @ \$1970.88	98,544.00
236	Jr. Cryptographic Clerks, CAF-2 @ \$1752.00	413,472.00
114	Jr. Clerk Stenographers, CAF-2 @ \$1752.00	199,788.00
105	Jr. Clerks, CAF-2 @ \$1752.00	183,960.00
157	Jr. Clerk-Typists, CAF-2 @ \$1752.00	275,064.00
130	Jr. Tab. Machine Operators, CAF-2 @ \$1752.00	227,760.00
80	Jr. Card Punch Operators, CAF-2 @ \$1752.00	140,130.00
5	Jr. Operators, Mimeograph, CAF-2 @ \$1752.00	8,760.00
150	Jr. Electrical Technicians, CAF-2 @ \$1752.00	262,800.00
		<u>4,408,060.56</u>

CPC

2	Head Messengers, CPC-4 @ \$1824.96	3,649.92
8	Messengers, CPC-3 @ \$1605.84	12,846.72
3	Jr. Messengers, CPC-2 @ \$1459.92	4,379.76
53	Jr. Janitors, CPC-2 @ \$1459.92	77,375.76
		<u>98,252.16</u>

UNGRADED

1	Eng. Equipment Superintendent @ \$3828.24	3,828.24
1	Eng. Equipment Foreman-Shop @ \$3163.20	3,163.20
8	Electrical Machinists @ \$2190.00	17,520.00
6	Electrical Machinists Helper @ \$1970.88	11,825.28
		<u>36,336.72</u>

3683

TOTAL - \$ 6,083,623.76

Adjustment for Advances in grade at rate of 6%

485,017.43  
8,568,641.19

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